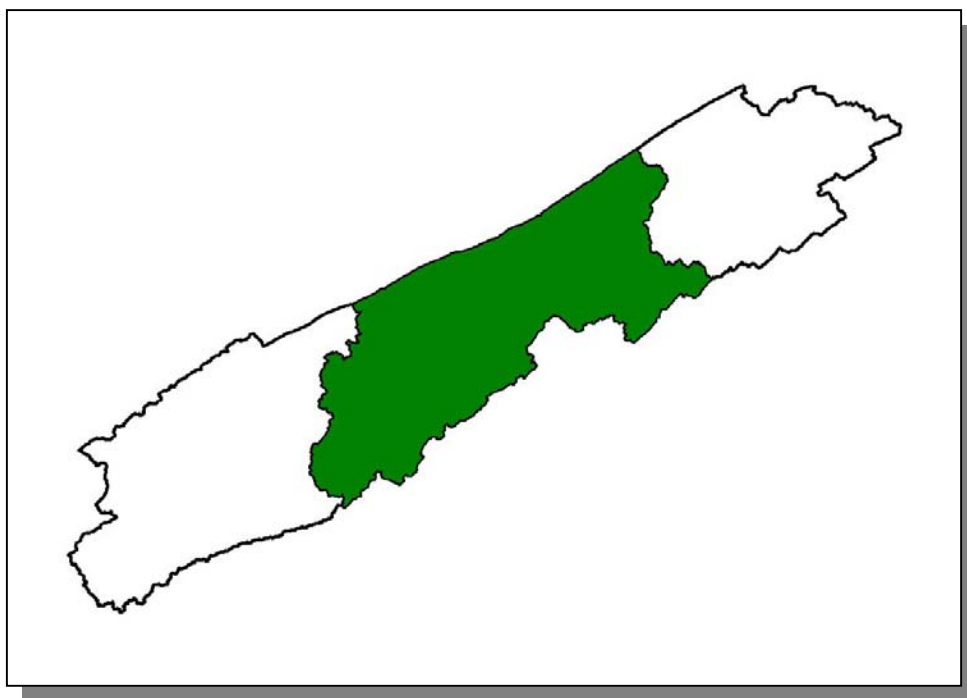
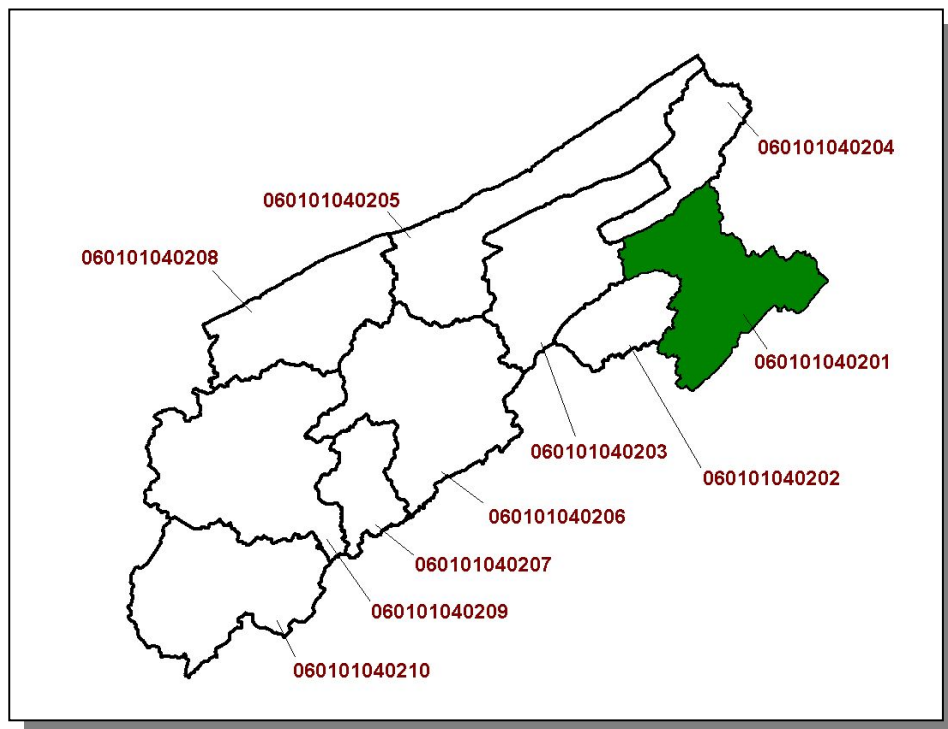


**4.2.B. 0601010402.**

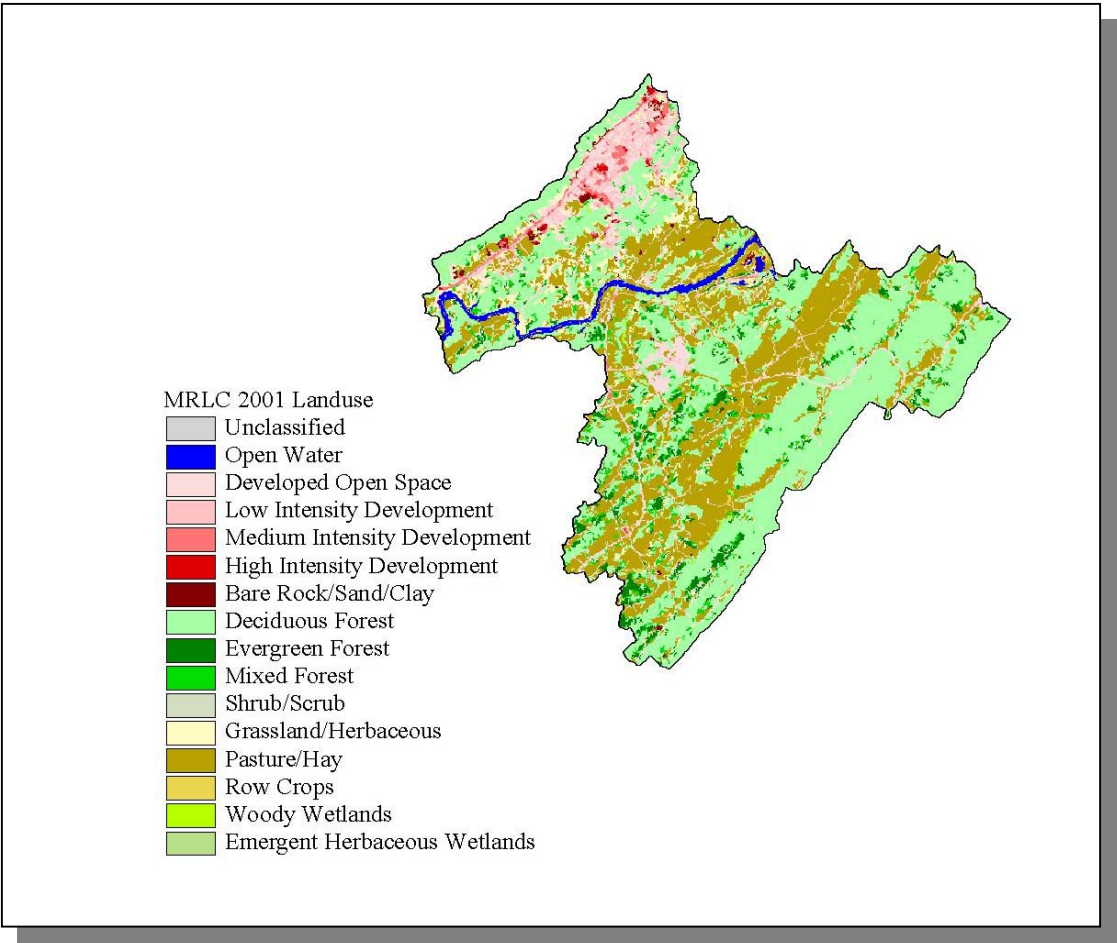


**Figure 4-42. Location of Subwatershed 0601010402.** All Holston River HUC-10 subwatershed boundaries are shown for reference.

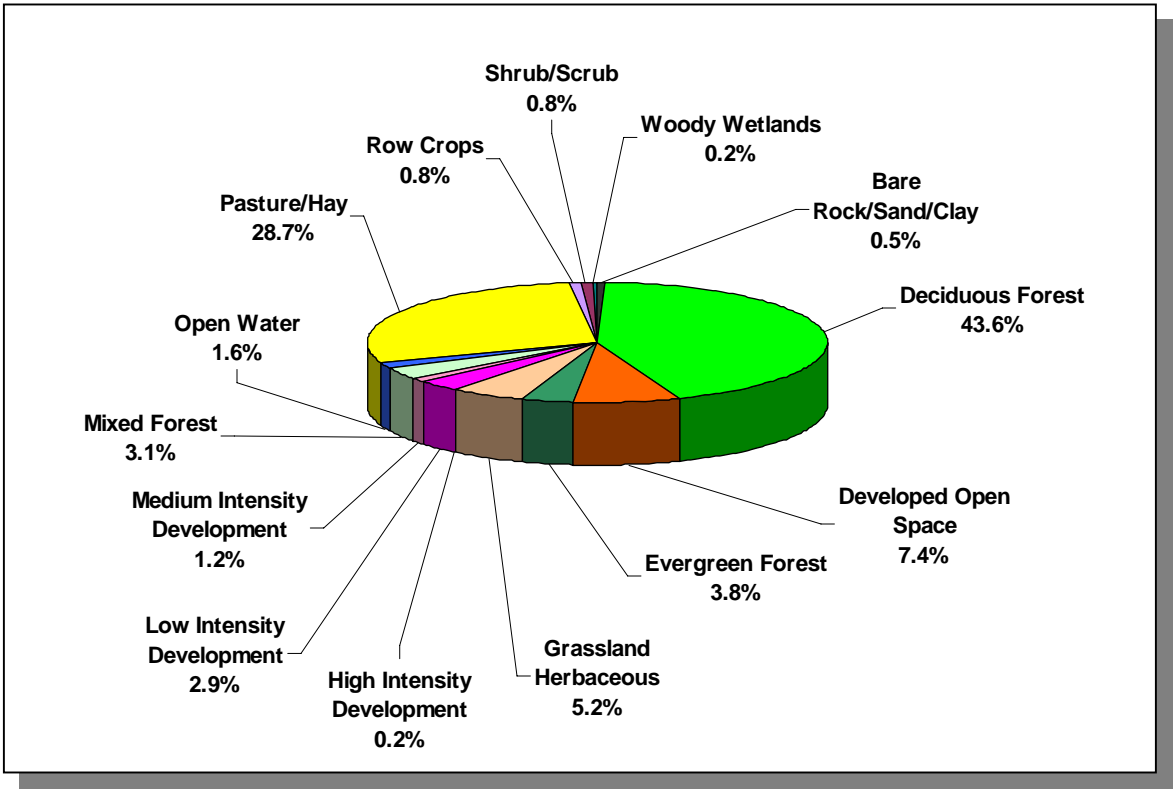
**4.2.B.i. 060101040201 (Cherokee Lake).**



**Figure 4-43. Location of Subwatershed 060101040201.** All HUC-12 subwatershed boundaries are shown for reference.

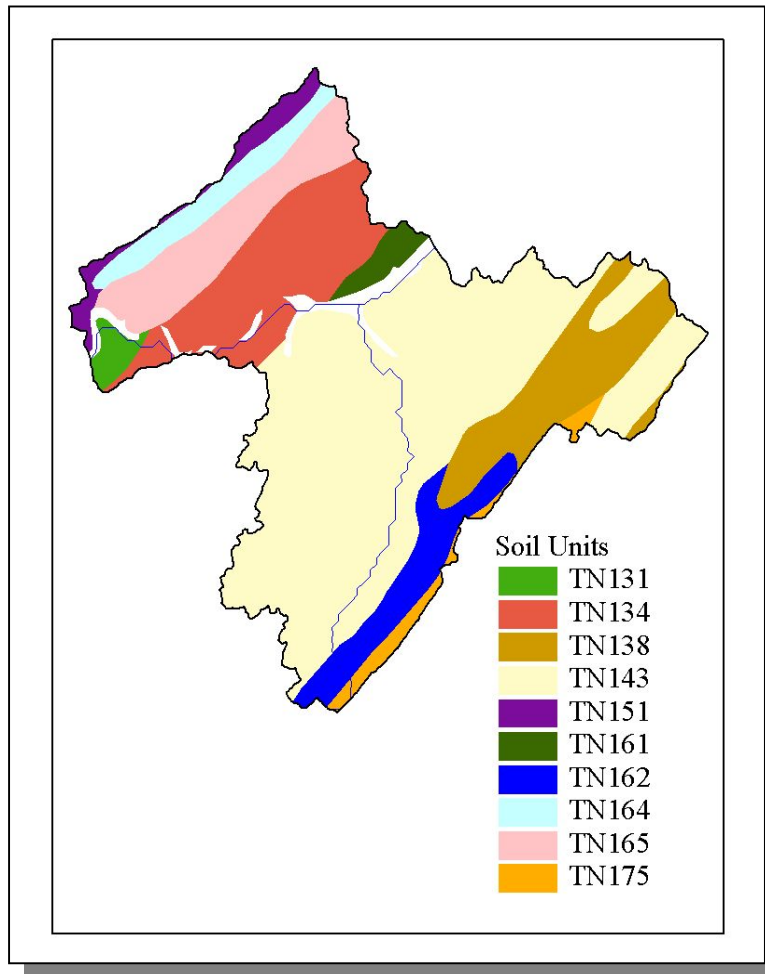


**Figure 4-44. Illustration of Land Use Distribution in Subwatershed 060101040201.**



**Figure 4-45. Land Use Distribution in Subwatershed 060101040201.** More information is provided in Appendix IV.

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**Figure 4-46. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040201.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN138	0.00	C	2.48	4.26	Sandy Loam	0.22
TN143	0.00	C	1.22	6.44	Loam	0.32
TN151	0.00	C	2.88	4.75	Loam	0.40
TN161	7.00	C	1.41	5.11	Loam	0.31
TN162	1.00	C	1.52	6.20	Loam	0.36
TN164	0.00	C	1.48	5.15	Loam	0.25
TN165	0.00	B	1.79	5.51	Silty Loam	0.32
TN175	0.00	B	1.49	5.23	Loam	0.30

**Table 4-37. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040201.** The definition of "Hydrologic Group" is provided in Appendix IV.

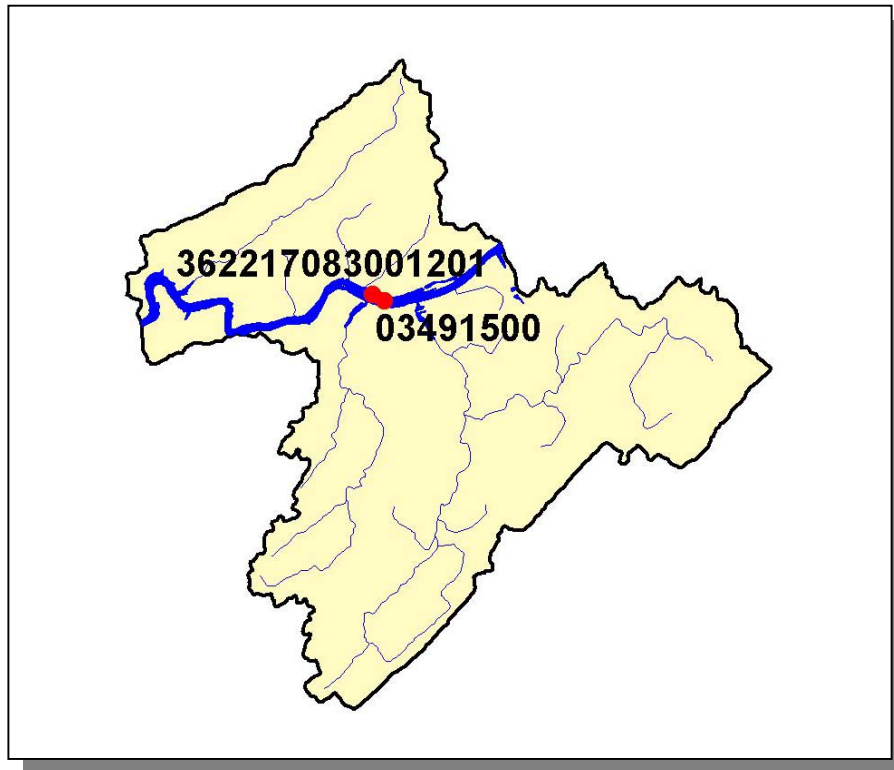
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Greene	55,853	59,369	62,909	0.34	190	202	214	12.6
Hawkins	44,565	48,821	53,563	8.71	3,880	4,250	4,663	20.2
<b>Total</b>	<b>100,418</b>	<b>108,190</b>	<b>116,472</b>		<b>4070</b>	<b>4,452</b>	<b>4,877</b>	<b>19.8</b>

**Table 4-38. Population Estimates in Subwatershed 060101040201.**

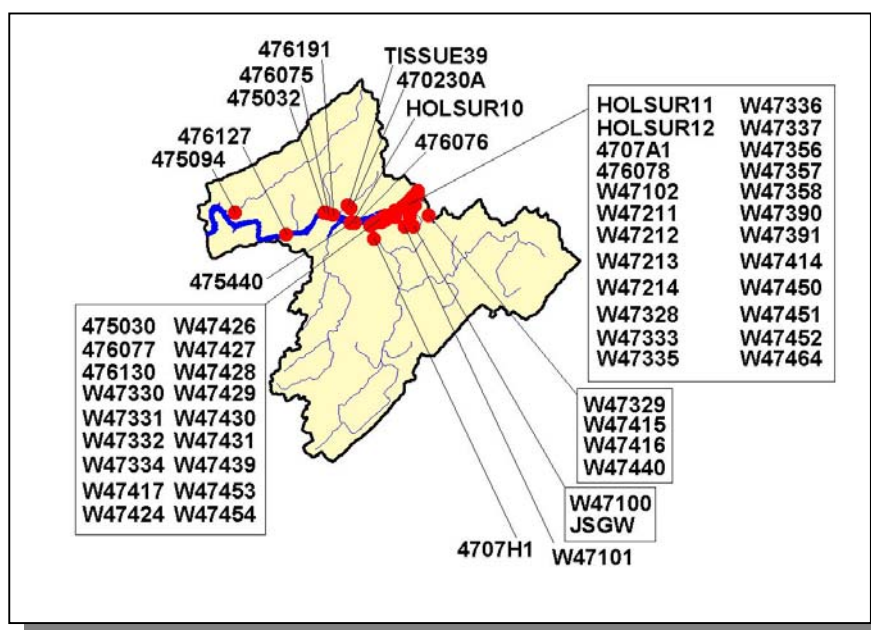
			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Rogersville	Hawkins	4,149	1,995	1,833	133	29

**Table 4-39. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040201.**



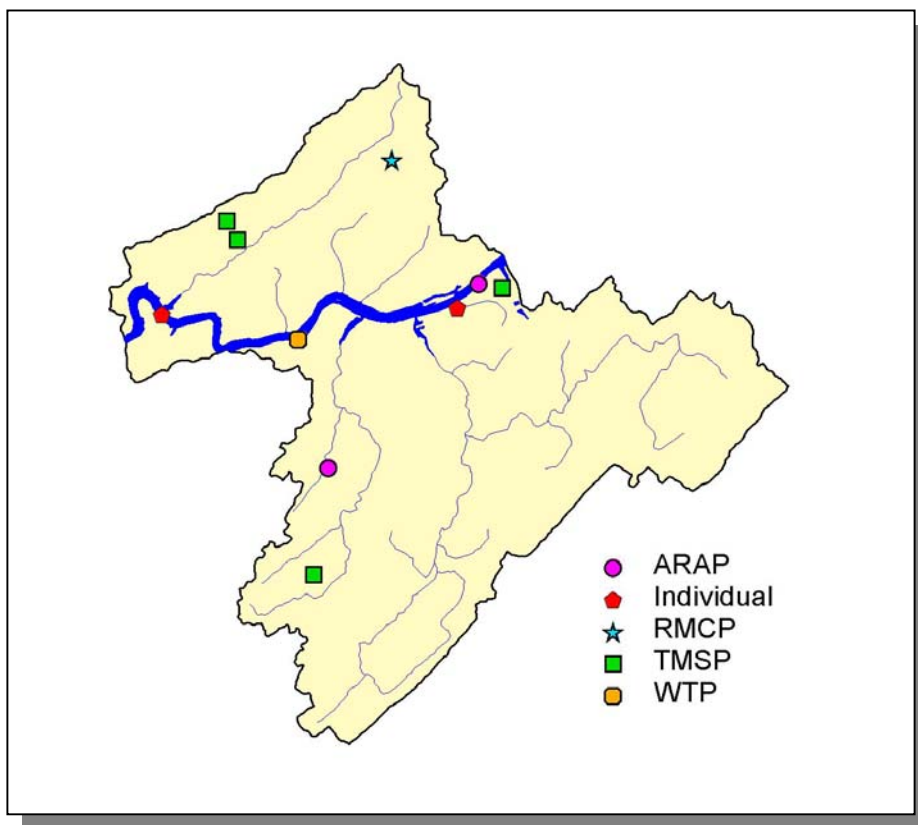
**Figure 4-47. Location of Historical Streamflow Data Collection Sites in Subwatershed 060101040201. More information is provided in Appendix IV.**

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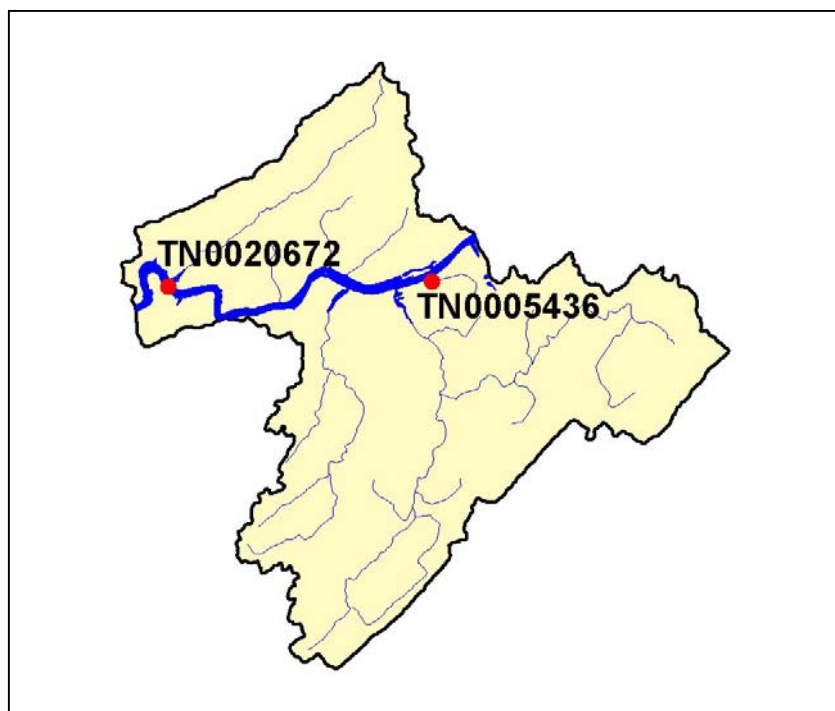
**Figure 4-48. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040201.** More information, including site names and locations, is provided in Appendix IV.

**4.2.B.i.a. Point Source Contributions.**

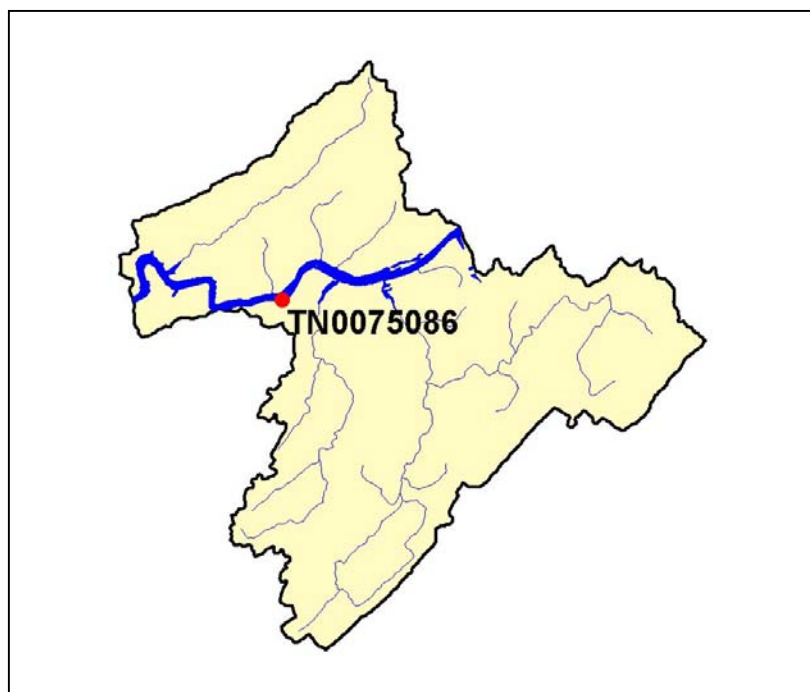


**Figure 4-49. Location of Permits Issued in Subwatershed 060101040201.** More information, including the names of facilities, is provided in Appendix IV.





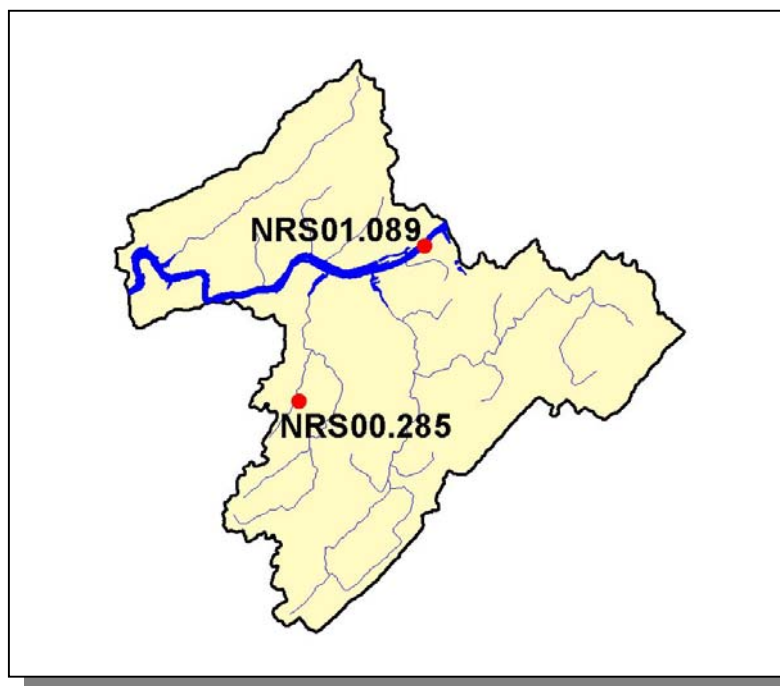
**Figure 4-50. Location of Active NPDES Sites in Subwatershed 060101040201.** More information, including the names of facilities, is provided in Appendix IV.



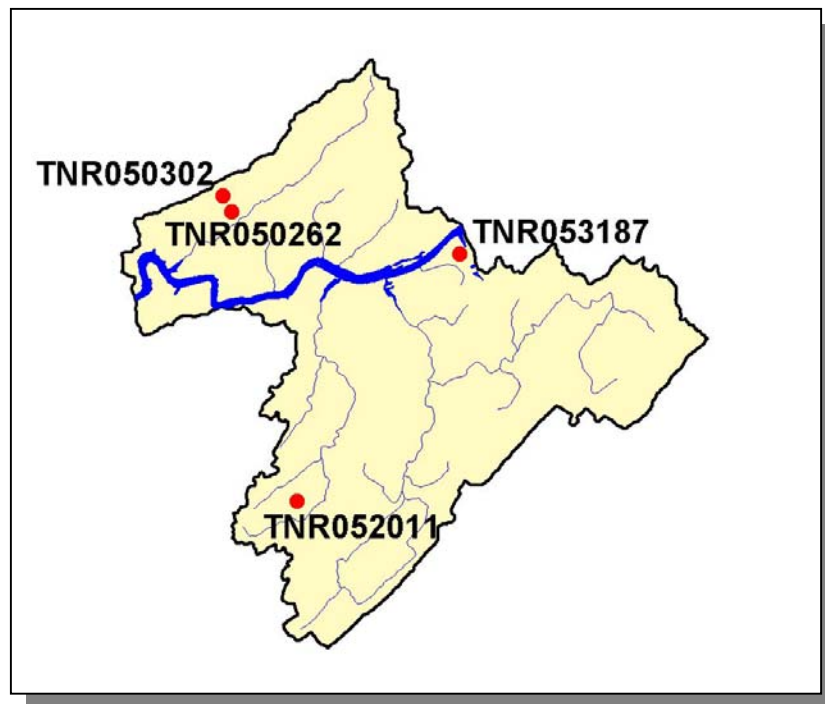
**Figure 4-51. Location of Water Treatment Plants in Subwatershed 060101040201.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-52. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 060101040201.** More information is provided in Appendix IV.



**Figure 4-53. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060101040201.** More information is provided in Appendix IV.



**Figure 4-54. Location of TMSF Sites in Subwatershed 060101040201.** More information, including the names of facilities, is provided in Appendix IV.

**4.2.B.i.a.i.** Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 060101040201:

- TN0020672 (Rogersville STP) discharges to the Holston River @ RM 99.7



**Figure 4-55. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 060101040201.** More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0020672	363				

**Table 4-40. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040201.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication *Flow Duration and Low Flows of Tennessee Streams Through 1992* or from permit files.

PERMIT #	FLOW	DISCHARGE RATIO
TN0020672	X	X

**Table 4-41. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040201.**

PERMIT #	WET	CBOD <sub>5</sub>	FECAL COLIFORM	TRC	TSS	SETTLABLE SOLIDS	DO	pH
TN0020672	X	X	X	X	X	X	X	X

**Table 4-42. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040201.** WET, Whole Effluent Toxicity; CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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**4.2.B.i.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
2,081	4,034	101	7	1,095	49	27

**Table 4-43. Summary of Livestock Count Estimates in Subwatershed 060101040201.**

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Greene	33,962	72,582	7,282	1,190	4,908,815	495	226
Hawkins	18,796	36,429	903	1,079	0	442	243

**Table 4-44. Summary of Livestock Count Estimates in Greene and Hawkins Counties.**

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

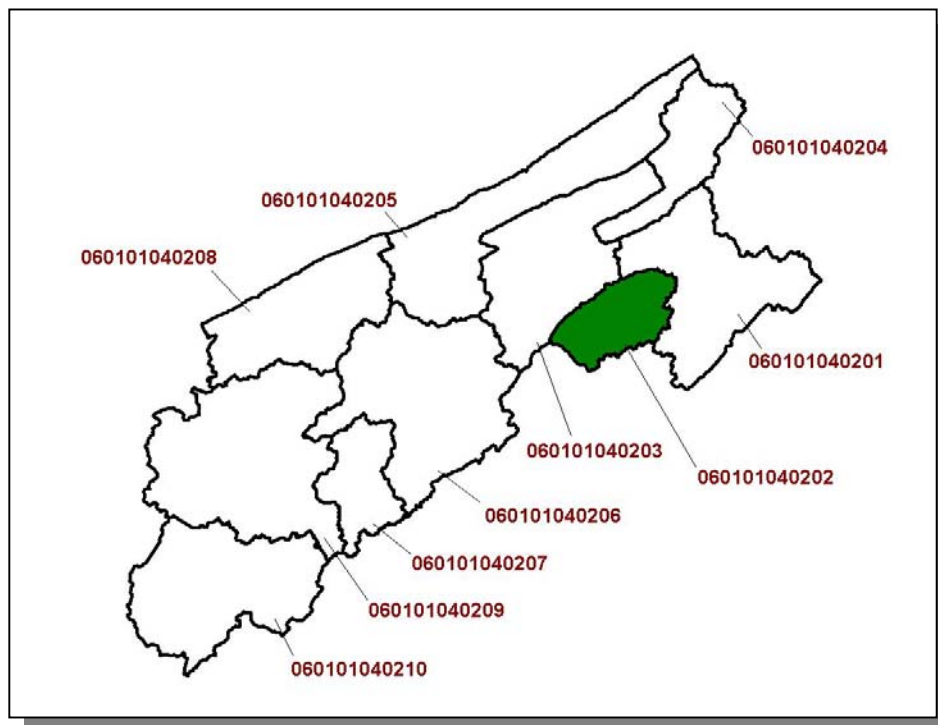
County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Greene	180	171.8	2.0	10.5
Hawkins	177.4	177.4	0.4	2.1

**Table 4-45. Forest Acreage and Annual Removal Rates (1987-1994) in Greene and Hawkins Counties.**

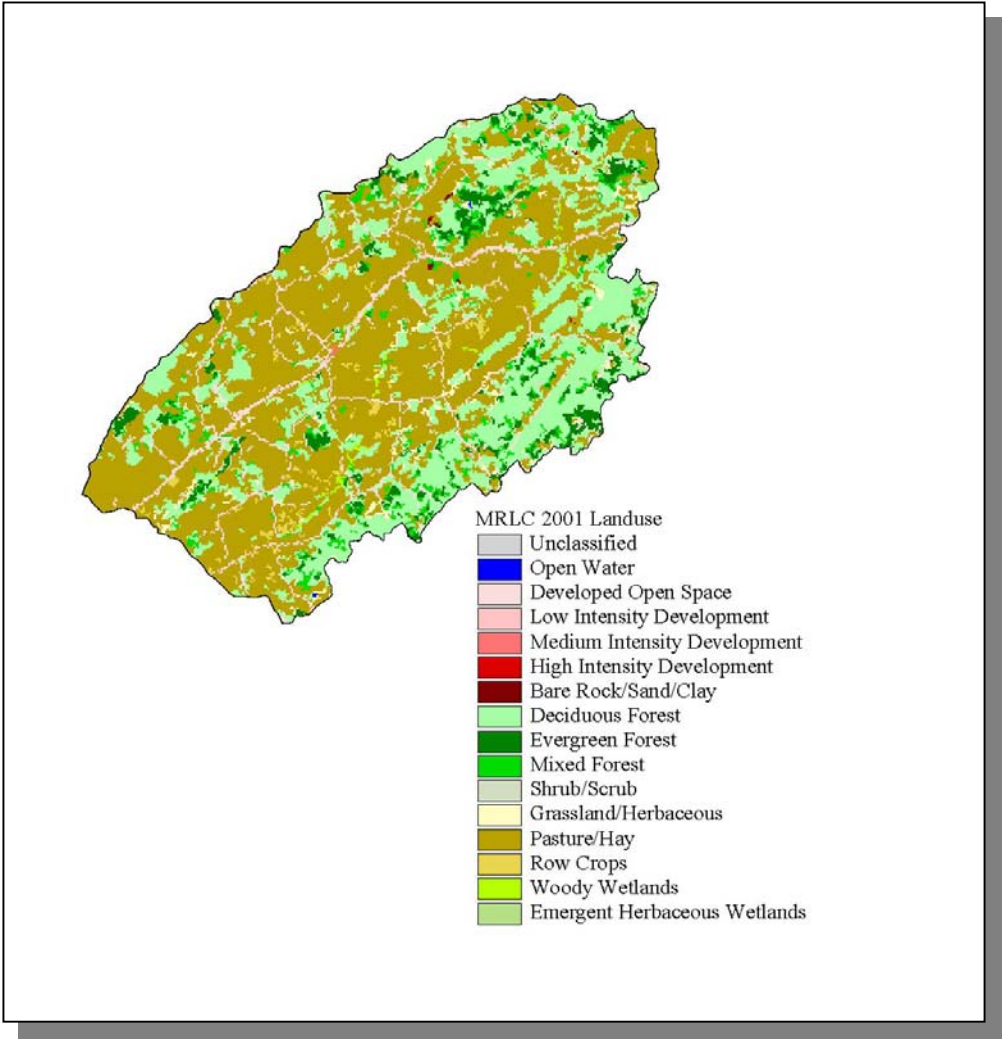
<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Grass (Pastureland)	0.27
Grass (Hayland)	0.54
Legumes, Grass (Hayland)	0.40
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Corn (Row Crops)	16.75
Tobacco (Row Crops)	16.35
Other Vegetable and Truck Crops	32.10
Farmsteads and Ranch Headquarters	0.46

**Table 4-46. Annual Estimated Total Soil Loss in Subwatershed 060101040201.**

**4.2.B.ii. 060101040202 (Robertson Creek).**

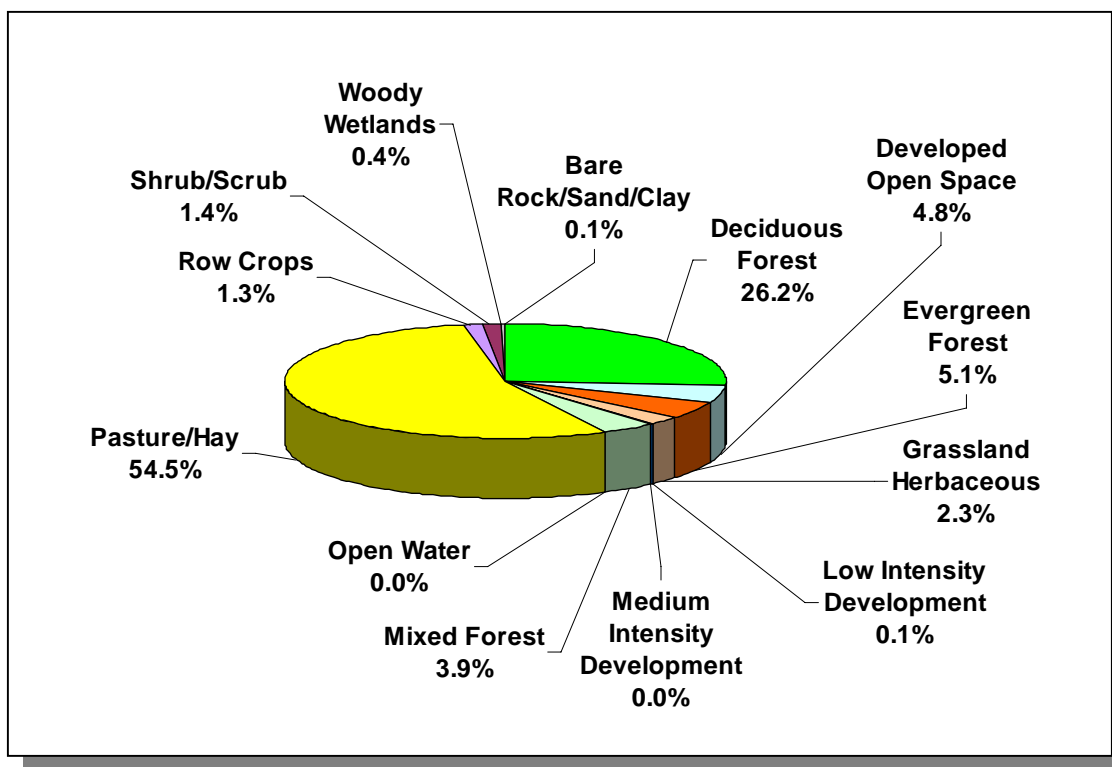


**Figure 4-56. Location of Subwatershed 060101040202.** All HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-57. Illustration of Land Use Distribution in Subwatershed 060101040202.**

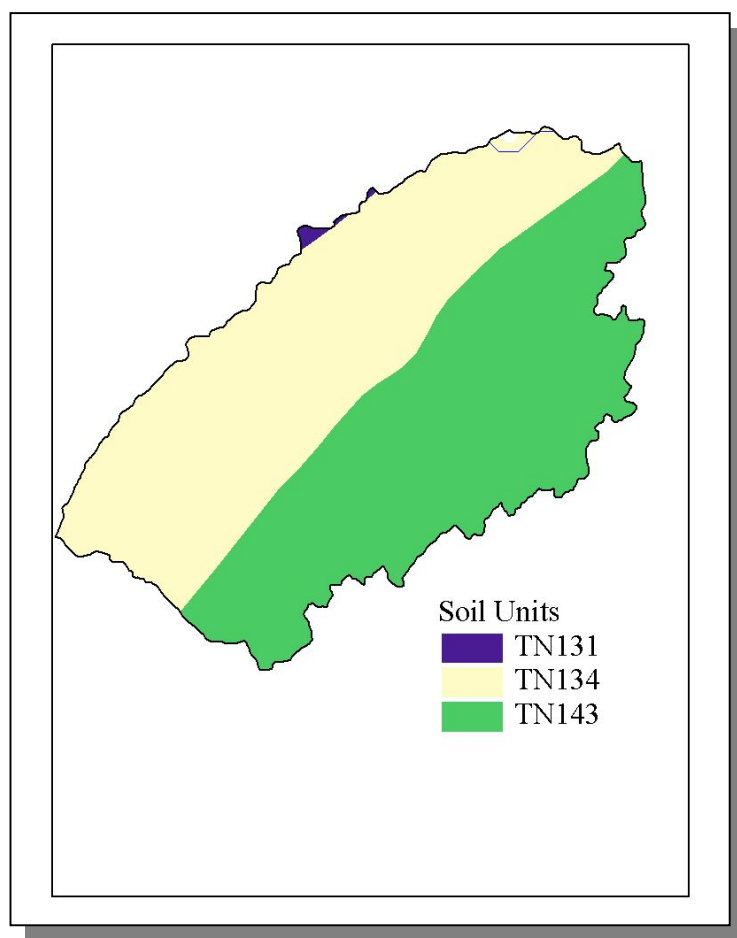
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**Figure 4-58. Land Use Distribution in Subwatershed 060101040202.** More information is provided in Appendix IV.



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**Figure 4-59. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040202.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN143	0.00	C	1.22	6.44	Loam	0.32

**Table 4-47. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040202.** The definition of “Hydrologic Group” is provided in Appendix IV.

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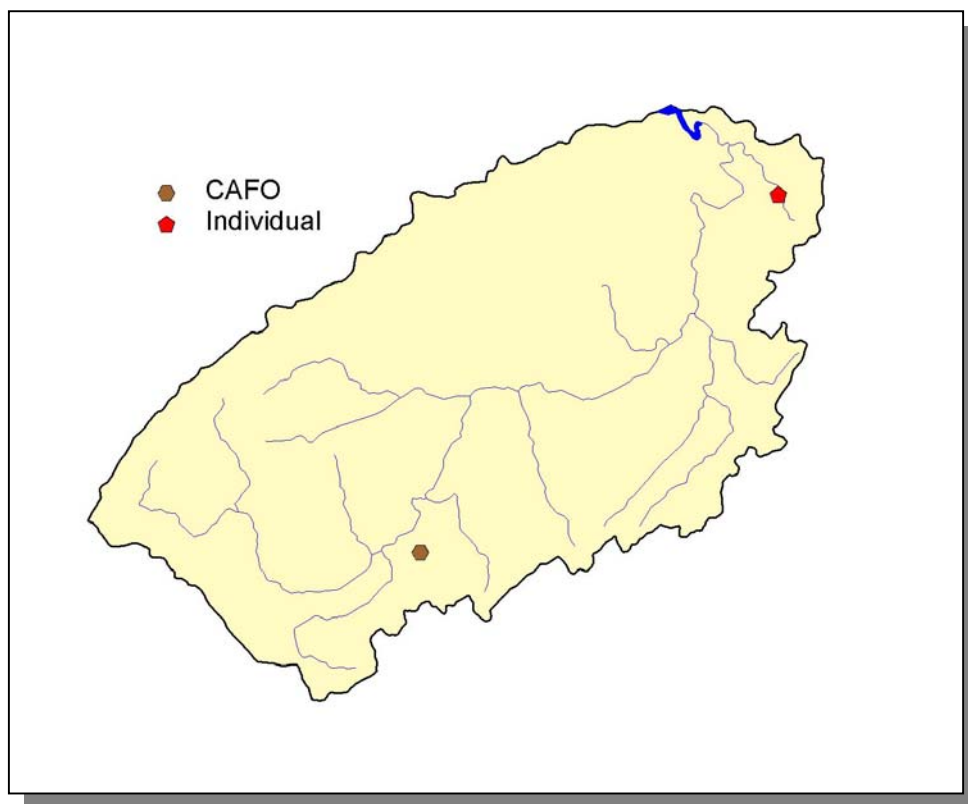
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hawkins	44,565	48,821	53,563	3.72	1,656	1,814	1,991	20.2

**Table 4-48. Population Estimates in Subwatershed 060101040202.**



**Figure 4-60. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040202.** More information, including site names and locations, is provided in Appendix IV.

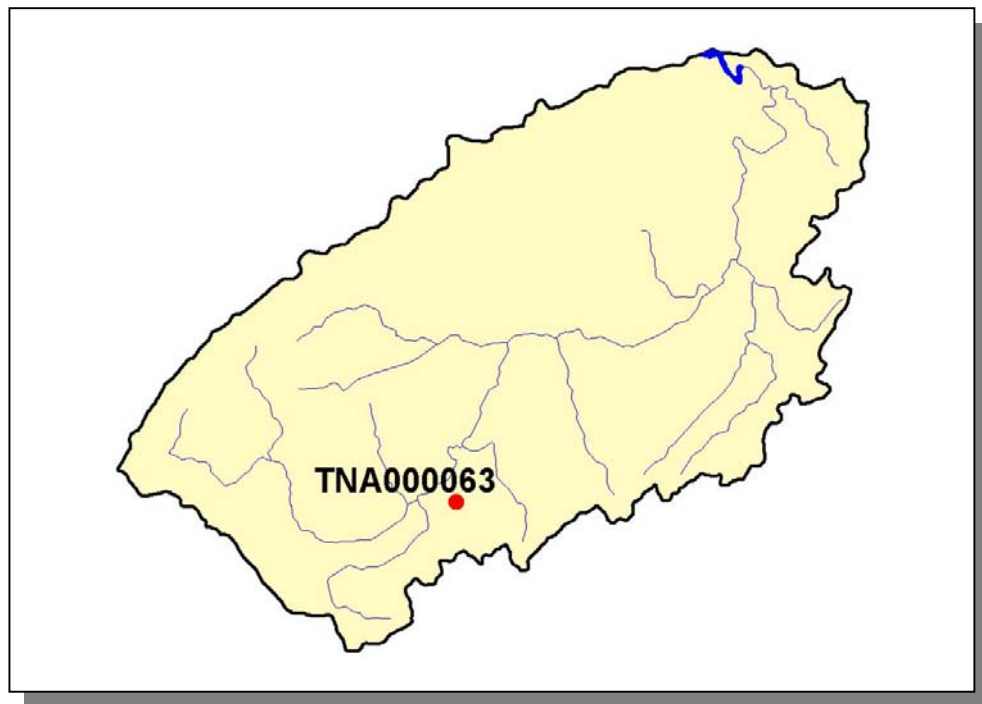
**4.2.B.ii.a. Point Source Contributions.**



**Figure 4-61. Location of Permits Issued in Subwatershed 060101040202.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-62. Location of Active NPDES Sites in Subwatershed 060101040202.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-63. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 060101040202.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.B.ii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,553	3,011	75	5	37	20

**Table 4-49. Summary of Livestock Count Estimates in Subwatershed 060101040202.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Hawkins	18,796	36,429	903	1,079	442	243

**Table 4-50. Summary of Livestock Count Estimates in Greene, Hawkins, Sullivan, and Washington Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

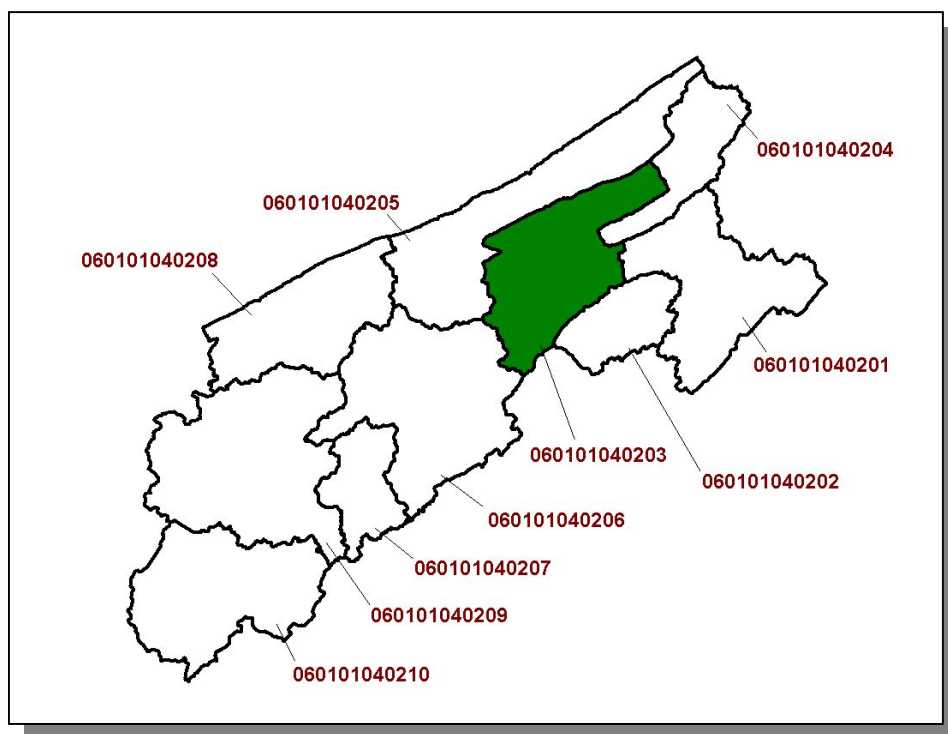
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hawkins	177.4	177.4	0.4	2.1

**Table 4-51. Forest Acreage and Annual Removal Rates (1987-1994) in Hawkins County.**

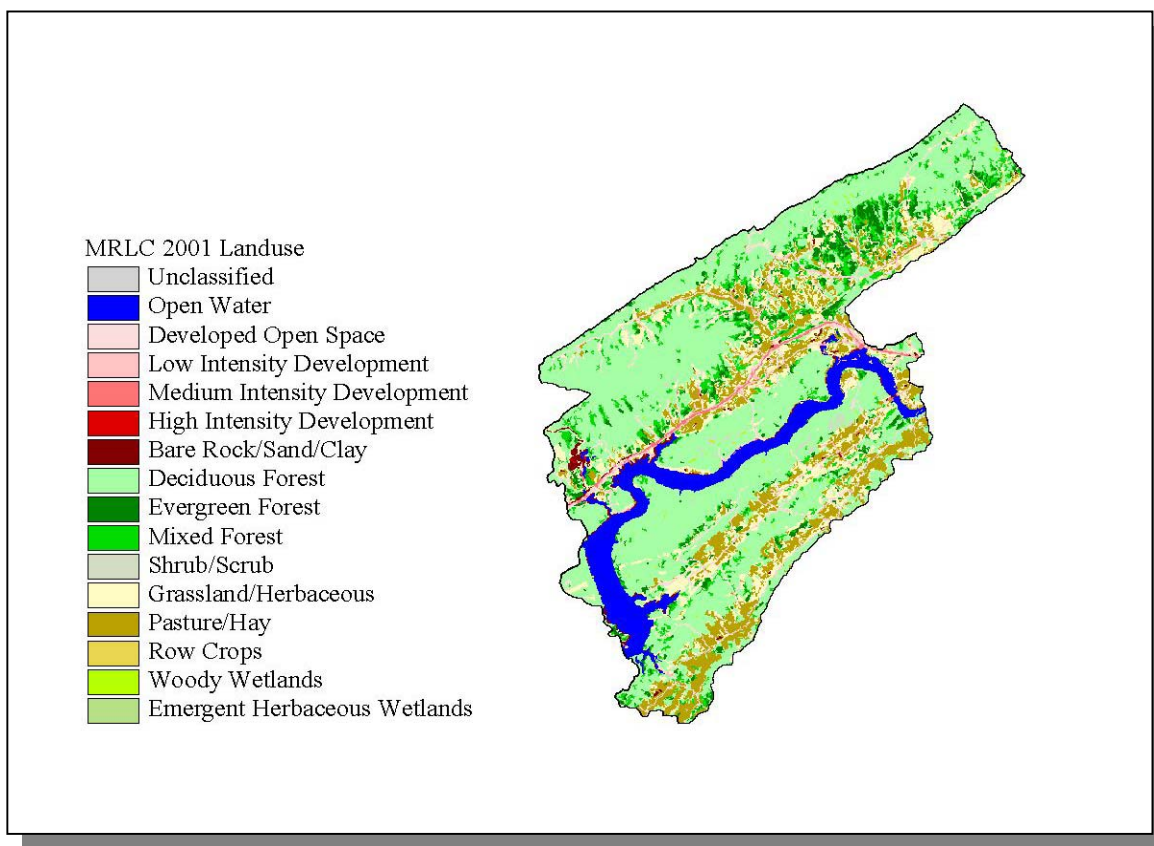
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.26
Grass (Hayland)	0.56
Legumes, Grass (Hayland)	0.40
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Tobacco (Row Crops)	16.40
Other Vegetable and Truck Crops	33.50
Farmsteads and Ranch Headquarters	0.40

**Table 4-52. Annual Estimated Total Soil Loss in Subwatershed 060101040202.**

**4.2.B.iii. 060101040203 (Cherokee Lake).**

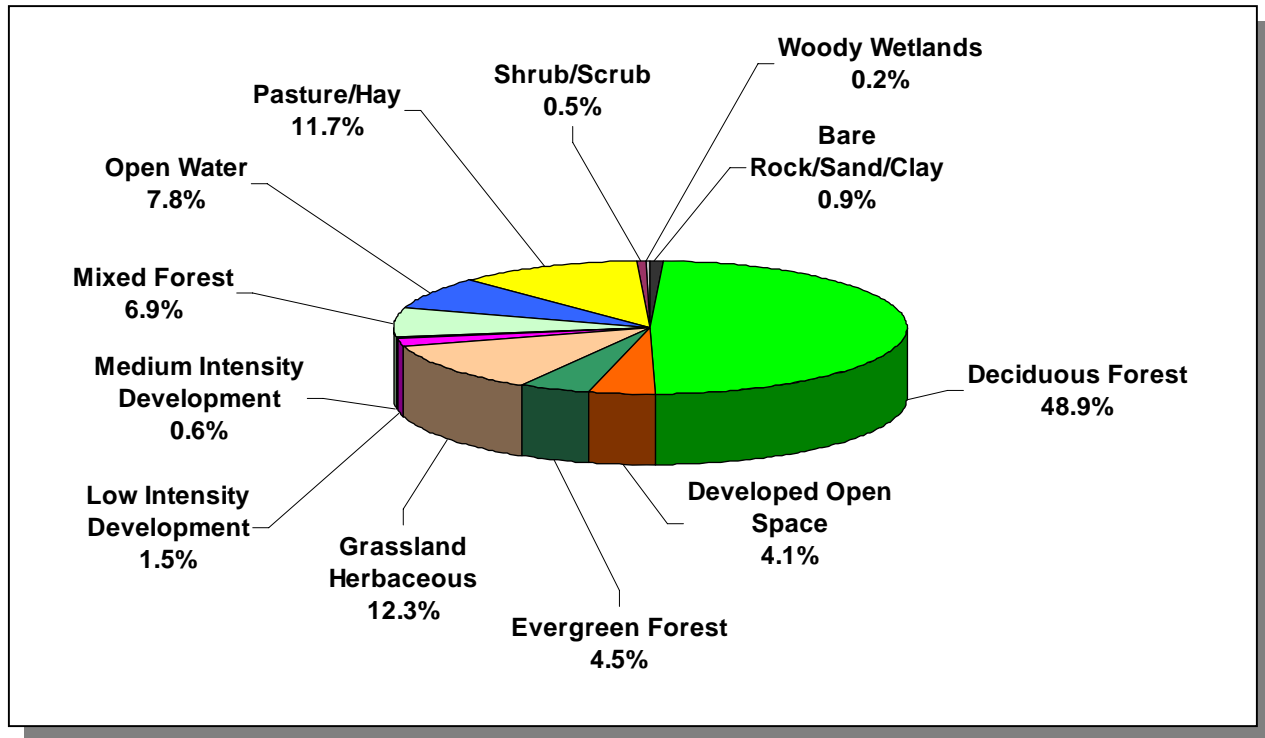


**Figure 4-64. Location of Subwatershed 060101040203.** All HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-65. Illustration of Land Use Distribution in Subwatershed 060101040203.**

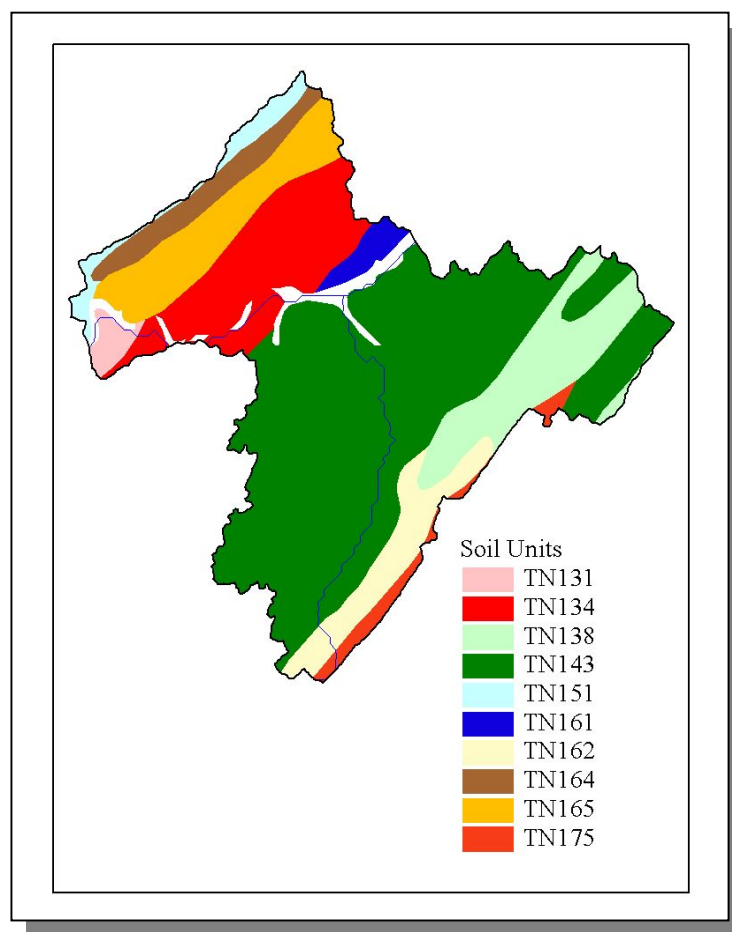
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**Figure 4-66. Land Use Distribution in Subwatershed 060101040203.** More information is provided in Appendix IV.



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**Figure 4-67. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040203.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN138	0.00	C	2.48	4.26	Sandy Loam	0.22
TN143	0.00	C	1.22	6.44	Loam	0.32
TN151	0.00	C	2.88	4.75	Loam	0.40
TN161	7.00	C	1.41	5.11	Loam	0.31
TN162	1.00	C	1.52	6.20	Loam	0.36
TN164	0.00	C	4.48	5.15	Loam	0.25
TN165	0.00	B	1.79	5.51	Silty Loam	0.32
TN175	0.00	B	1.49	5.23	Loam	0.30

**Table 4-53. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040203.** The definition of "Hydrologic Group" is provided in Appendix IV.

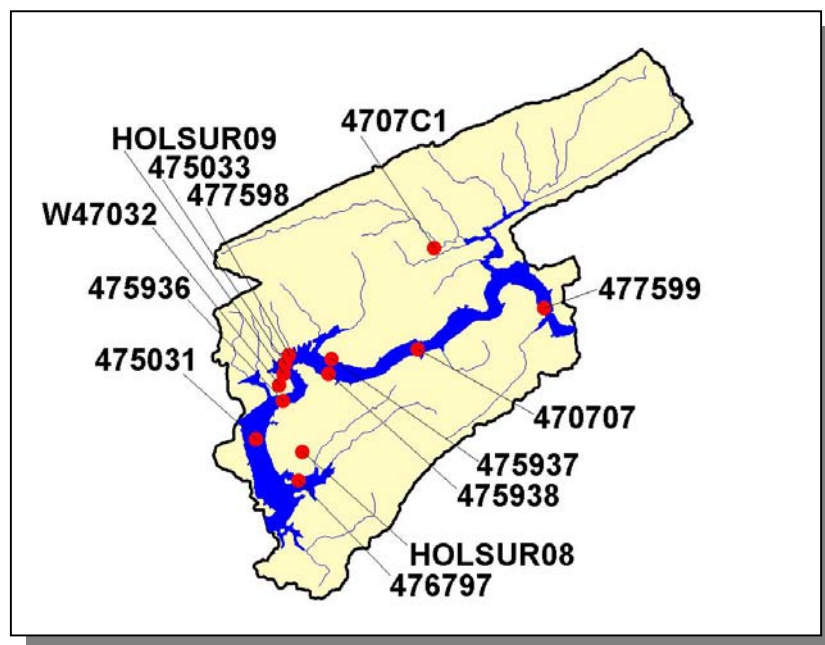
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Greene	55,853	59,369	62,909	0.34	190	202	214	12.6
Hawkins	44,565	48,821	53,563	8.71	3,880	4,250	4,663	20.2
<b>Total</b>	<b>100,418</b>	<b>108,190</b>	<b>116,472</b>		<b>4,070</b>	<b>4,452</b>	<b>4,877</b>	<b>19.8</b>

*Table 4-54. Population Estimates in Subwatershed 060101040203.*

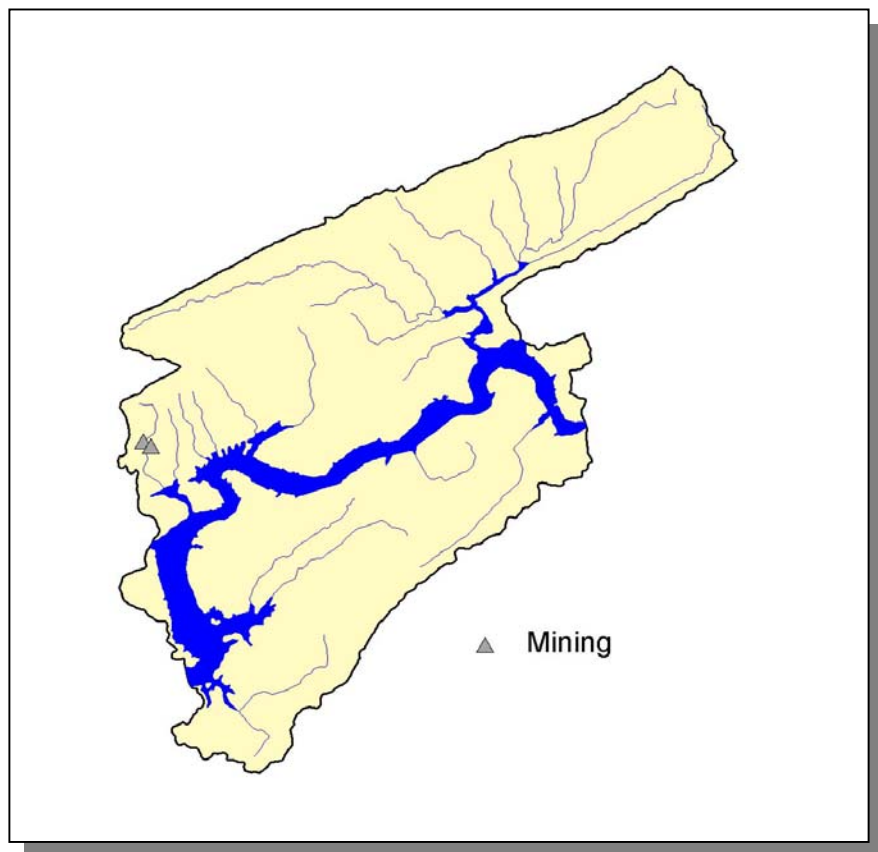
			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Rogersville	Hawkins	4,149	1,995	1,833	133	29

*Table 4-55. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040203.*

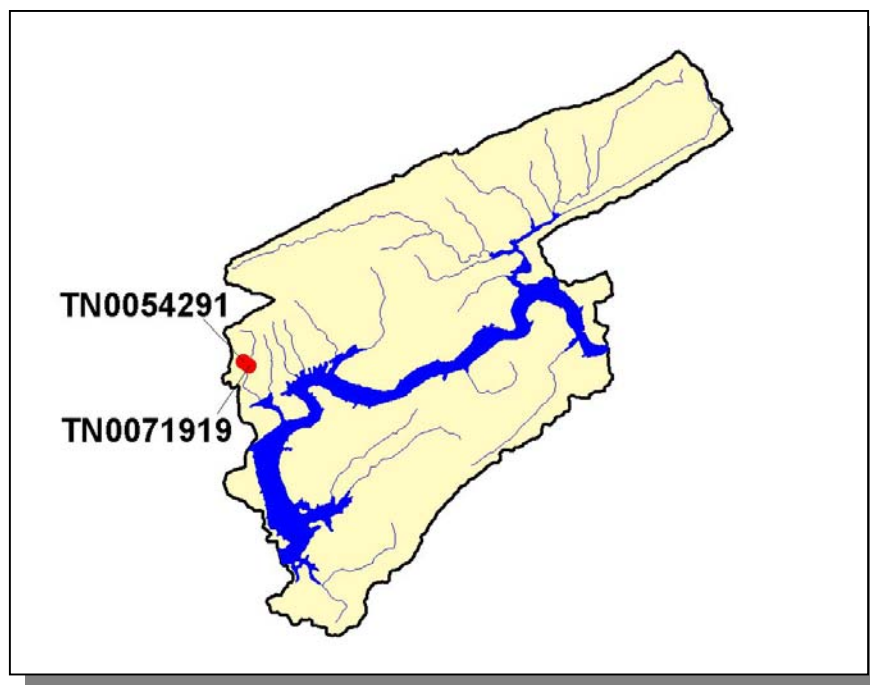


*Figure 4-68. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040203. More information, including site names and locations, is provided in Appendix IV.*

**4.2.B.iii.a. Point Source Contributions.**



**Figure 4-69. Location of Permits Issued in Subwatershed 060101040203.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-70. Location of Active Mining Sites in Subwatershed 060101040203.** More information, including the names of mining operations, is provided in Appendix IV.

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**4.2.B.iii.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
2,081	4,034	101	7	1,095	49	27

**Table 4-56. Summary of Livestock Count Estimates in Subwatershed 060101040203.**

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Greene	33,962	72,582	7,282	1,190	4,908,815	495	226
Hawkins	18,796	36,429	903	1,079	0	442	243

**Table 4-57. Summary of Livestock Count Estimates in Greene and Hawkins Counties.**

According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

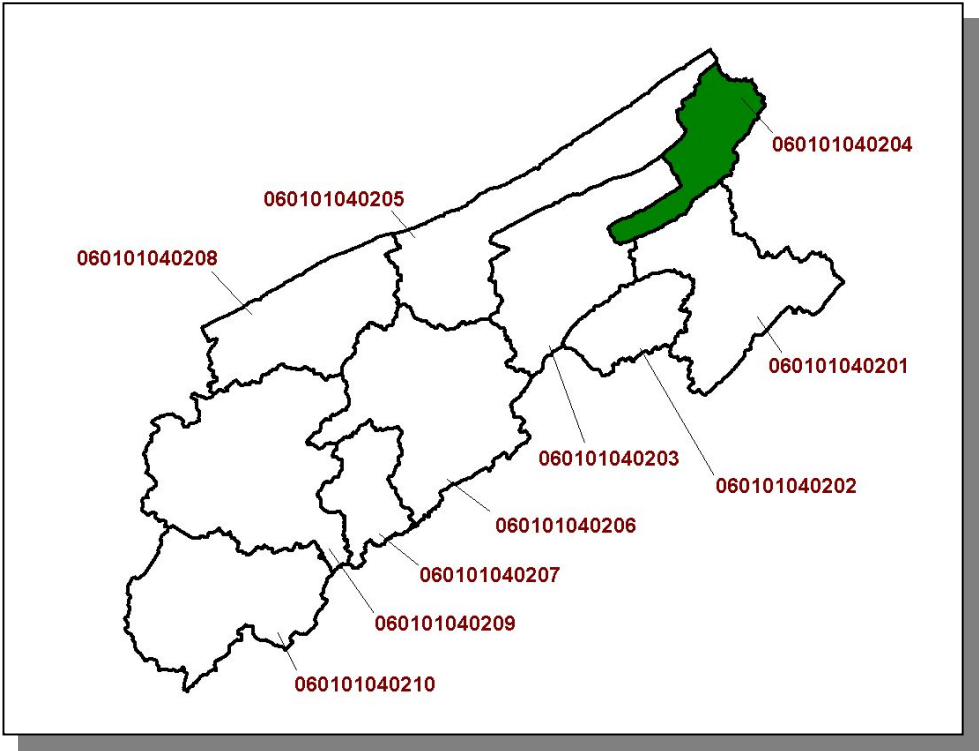
County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Greene	180.0	171.8	2.0	10.5
Hawkins	177.4	177.4	0.4	2.1

**Table 4-58. Forest Acreage and Annual Removal Rates (1987-1994) in Greene and Hawkins Counties.**

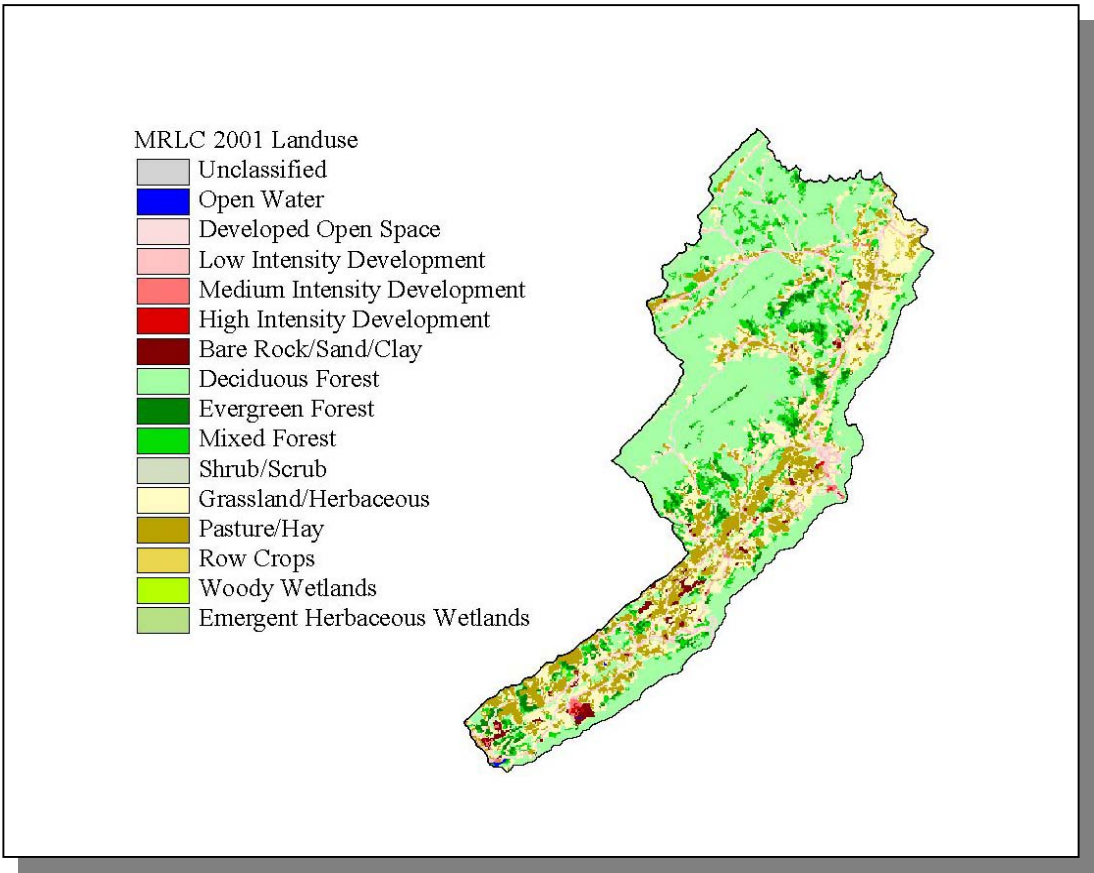
<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Grass (Pastureland)	0.27
Grass (Hayland)	0.54
Legumes, Grass (Hayland)	0.40
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Corn (Row Crops)	16.75
Tobacco (Row Crops)	16.35
Other Vegetable and Truck Crops	32.10
Farmsteads and Ranch Headquarters	0.46

**Table 4-59. Annual Estimated Total Soil Loss in Subwatershed 060101040203.**

**4.2.B.iv. 060101040204 (Caney Creek).**

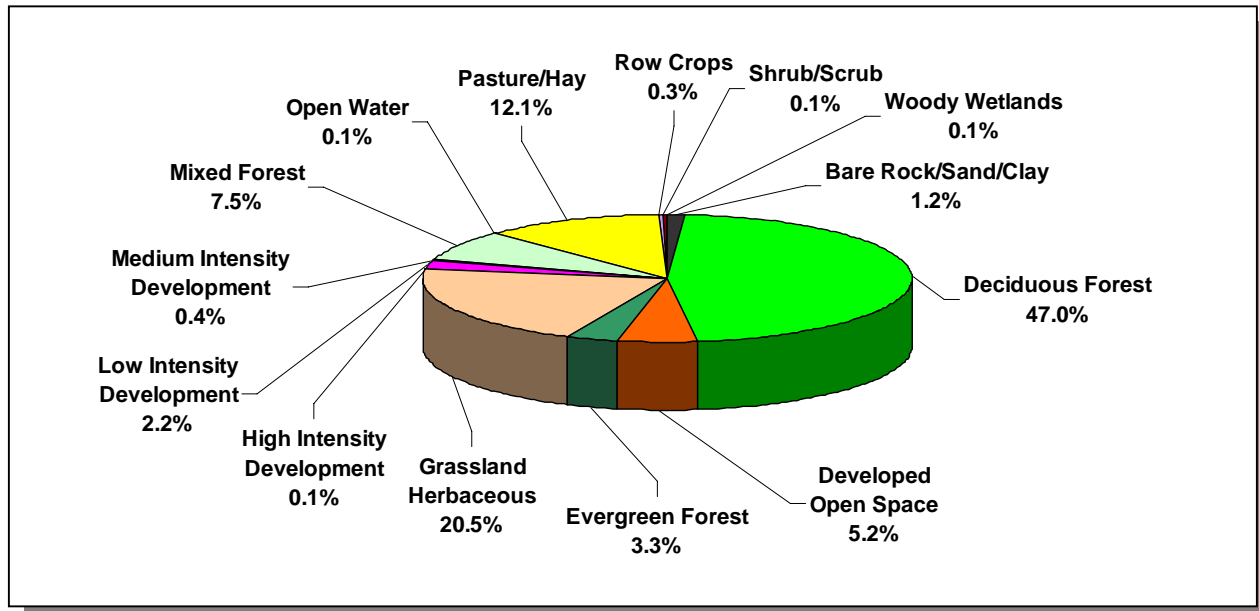


**Figure 4-71. Location of Subwatershed 060101040204.** All HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-72. Illustration of Land Use Distribution in Subwatershed 060101040204.**

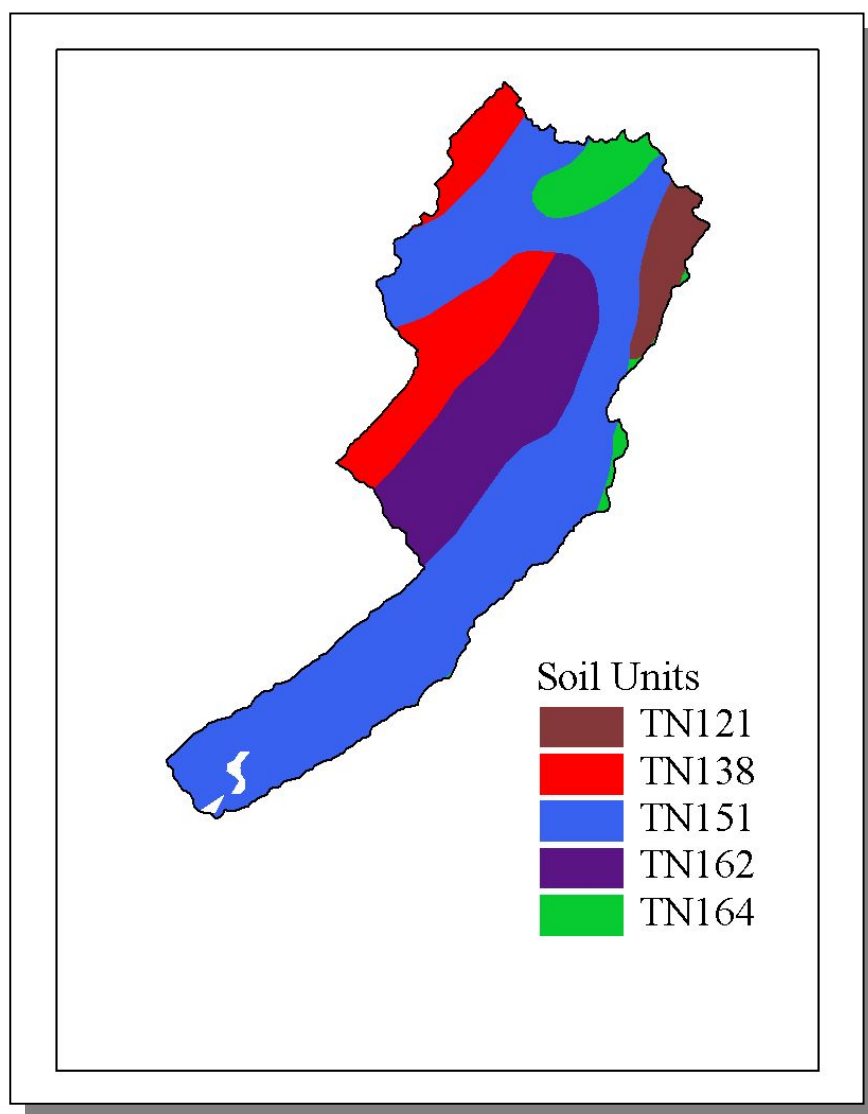
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**Figure 4-73. Land Use Distribution in Subwatershed 060101040204.** More information is provided in Appendix IV.



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**Figure 4-74. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040204.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN121	0.00	B	1.30	5.21	Loam	0.33
TN138	0.00	C	2.48	4.26	Sandy Loam	0.22
TN151	0.00	C	2.88	4.75	Loam	0.40
TN162	1.00	C	1.52	6.20	Loam	0.36
TN164	0.00	C	4.48	5.15	Loam	0.25

**Table 4-60. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040204.** The definition of "Hydrologic Group" is provided in Appendix IV.

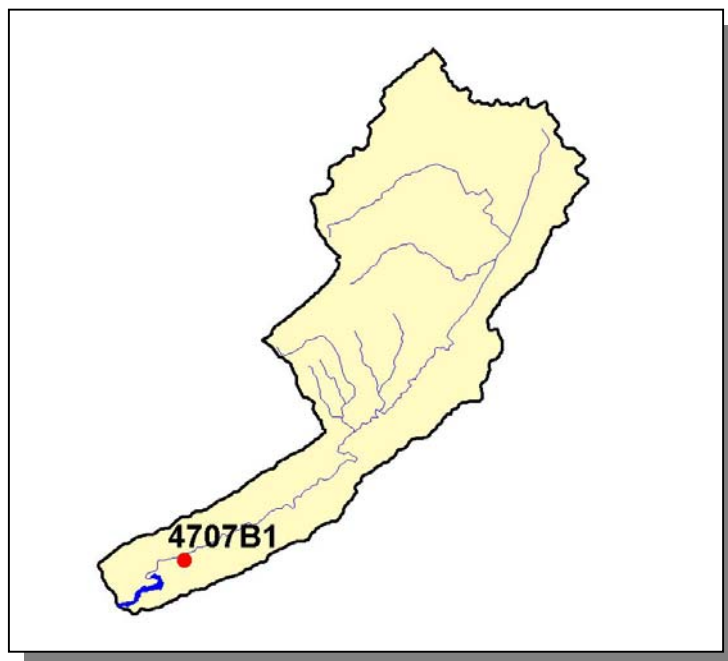
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hawkins	44,565	48,821	53,563	4.53	2,017	2,210	2,425	20.2

**Table 4-61. Population Estimates in Subwatershed 060101040204.**

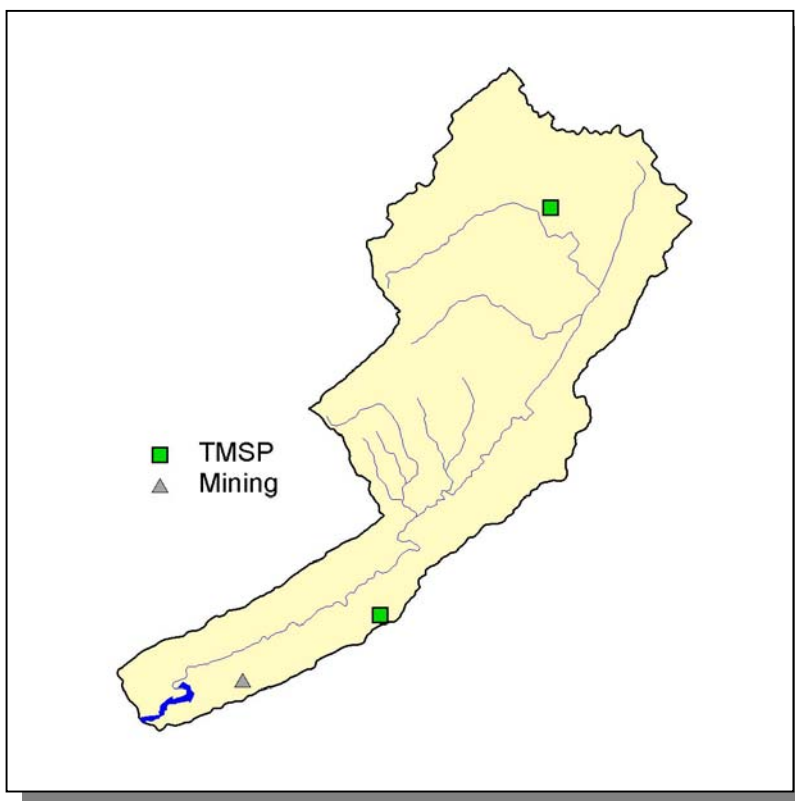
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Rogersville	Hawkins	4,149	1,995	1,833	133	29

**Table 4-62. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040204.**

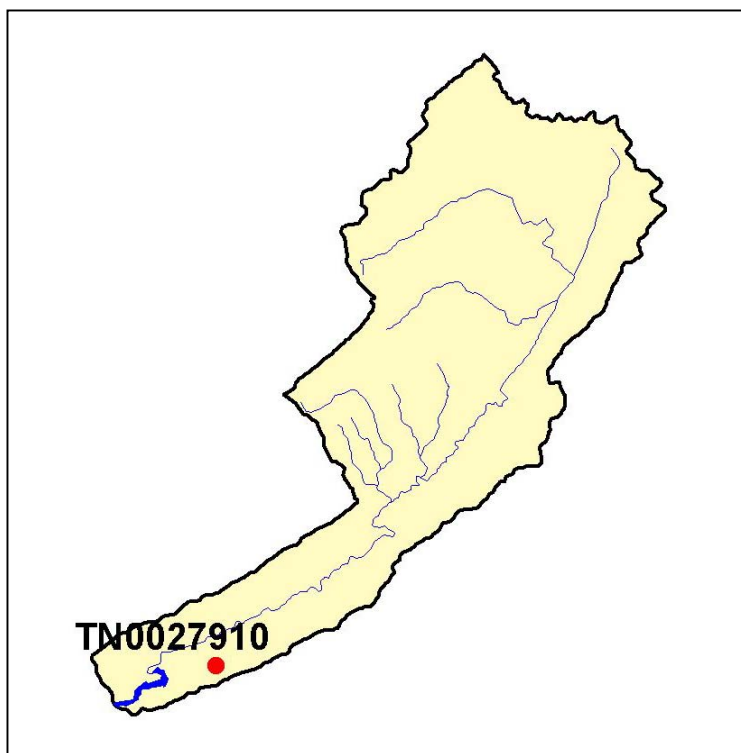


**Figure 4-75. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040204.** More information, including site names and locations, is provided in Appendix IV.

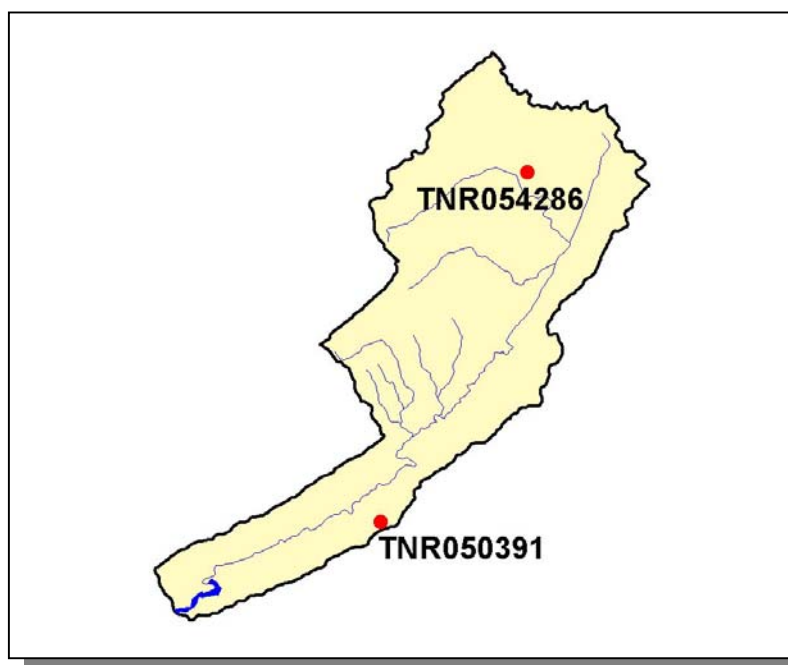
**4.2.B.iv.a. Point Source Contributions.**



**Figure 4-76. Location of Permits Issued in Subwatershed 060101040204.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-77. Location of Active Mining Sites in Subwatershed 060101040204.** More information, including the names of mining operations, is provided in Appendix IV.



**Figure 4-78. Location of TMSP Sites in Subwatershed 060101040204.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.B.iv.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
843	1,633	40	<5	20	11

**Table 4-63. Summary of Livestock Count Estimates in Subwatershed 060101040204.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Hawkins	18,796	36,429	903	1,079	442	243

**Table 4-64. Summary of Livestock Count Estimates in Hawkins County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

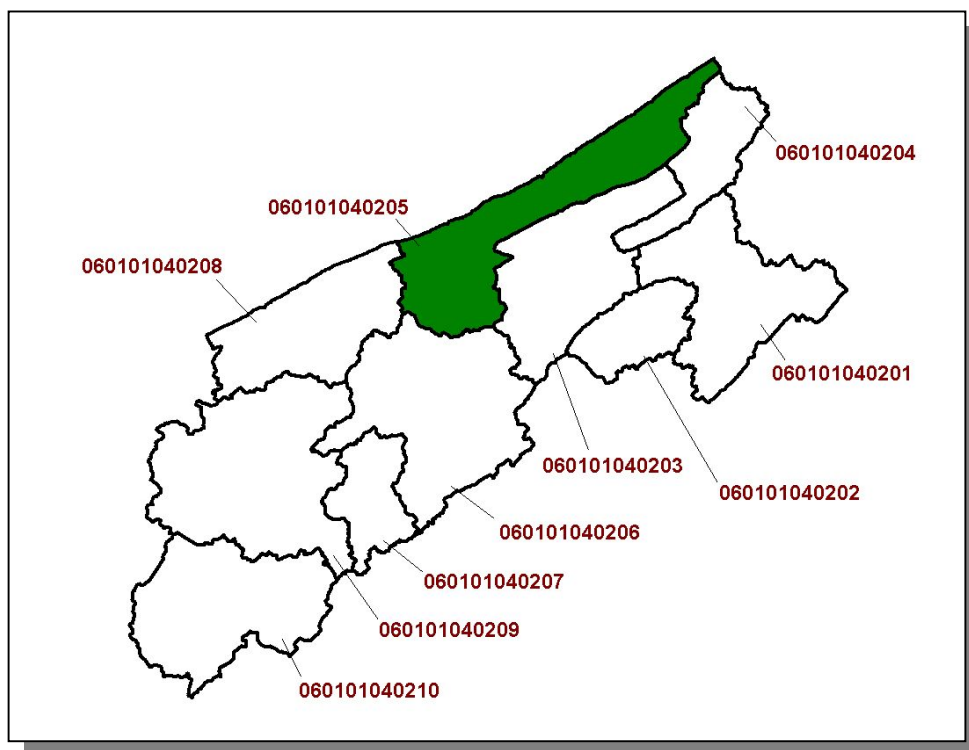
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hawkins	177.4	177.4	0.4	2.1

**Table 4-65. Forest Acreage and Annual Removal Rates (1987-1994) in Hawkins County.**

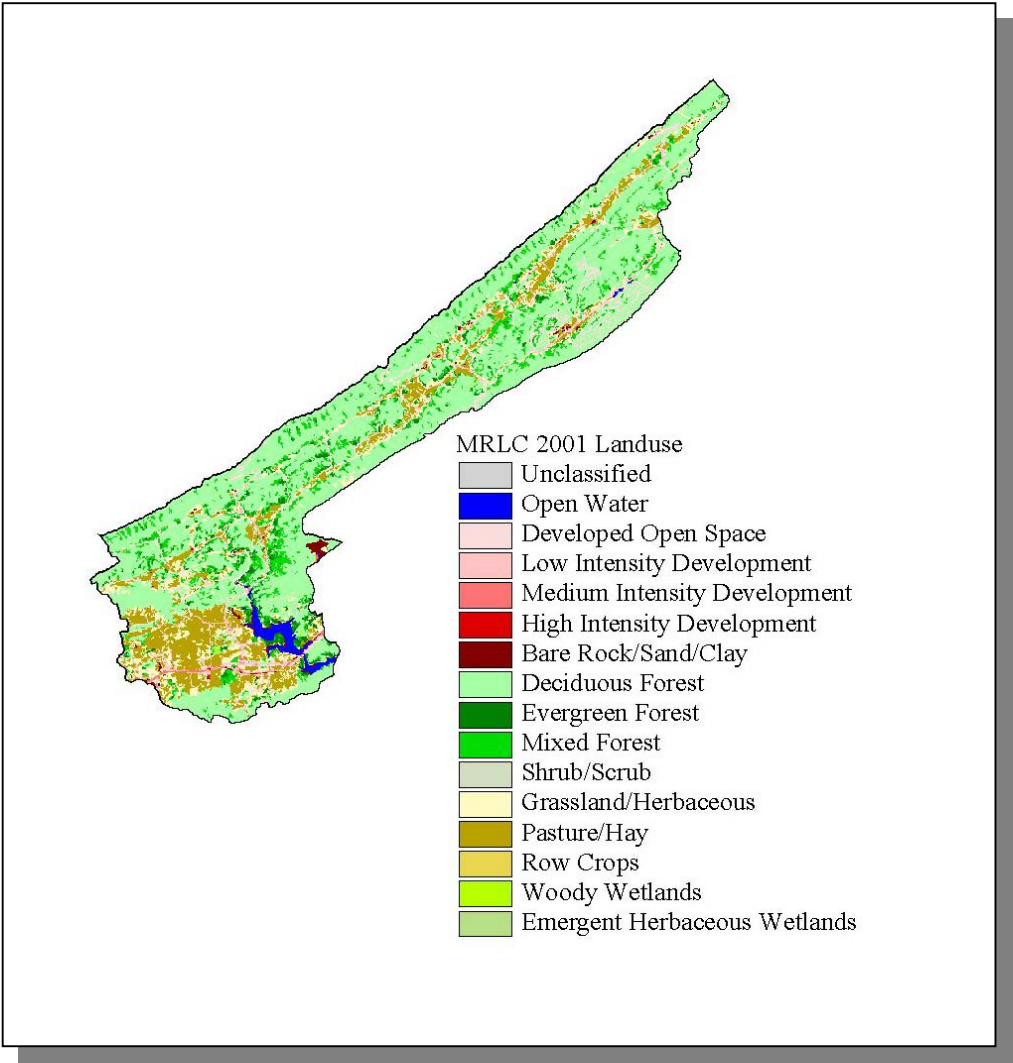
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.26
Grass (Hayland)	0.56
Legumes, Grass (Hayland)	0.40
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Tobacco (Row Crops)	16.40
Other Vegetable and Truck Crops	33.50
Farmsteads and Ranch Headquarters	0.40

**Table 4-66. Annual Estimated Total Soil Loss in Subwatershed 060101040204.**

**4.2.B.v.** 060101040205 (Poor Valley Creek).

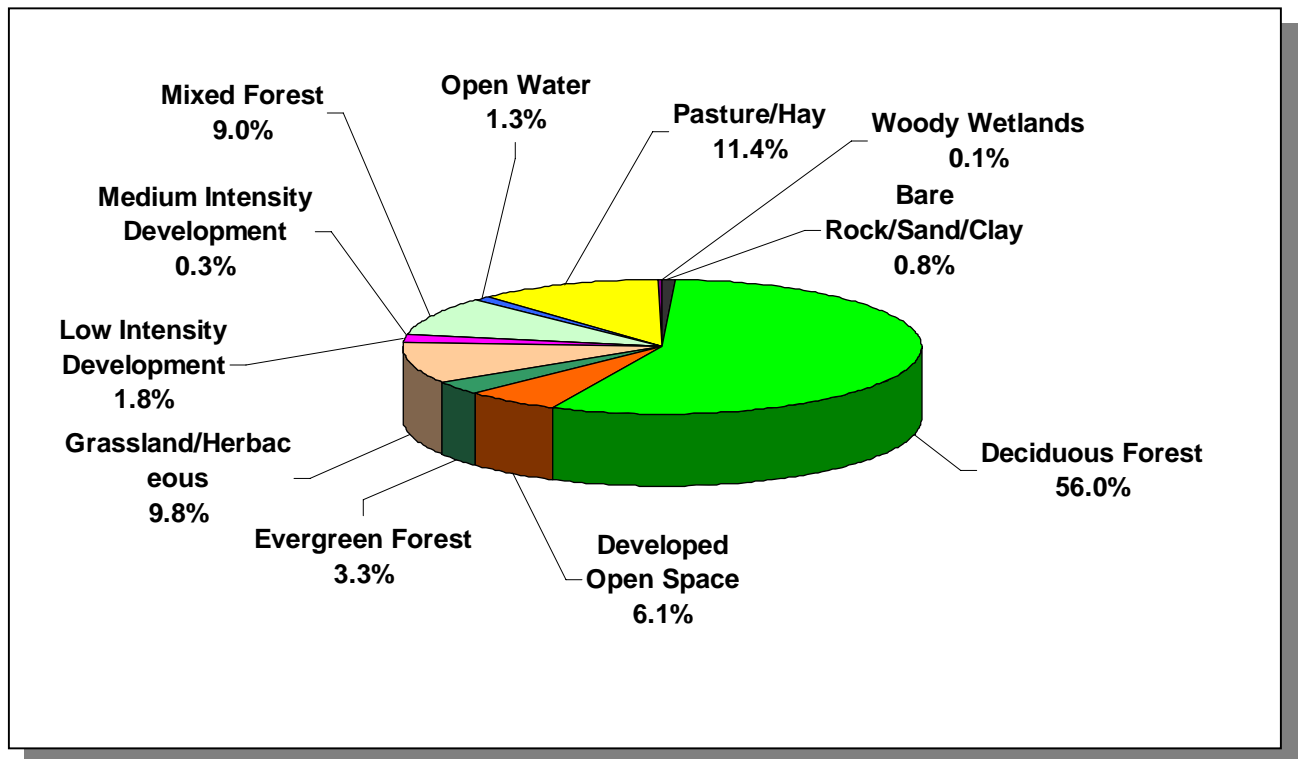


**Figure 4-79. Location of Subwatershed 060101040205.** All HUC-12 subwatershed boundaries are shown for reference.



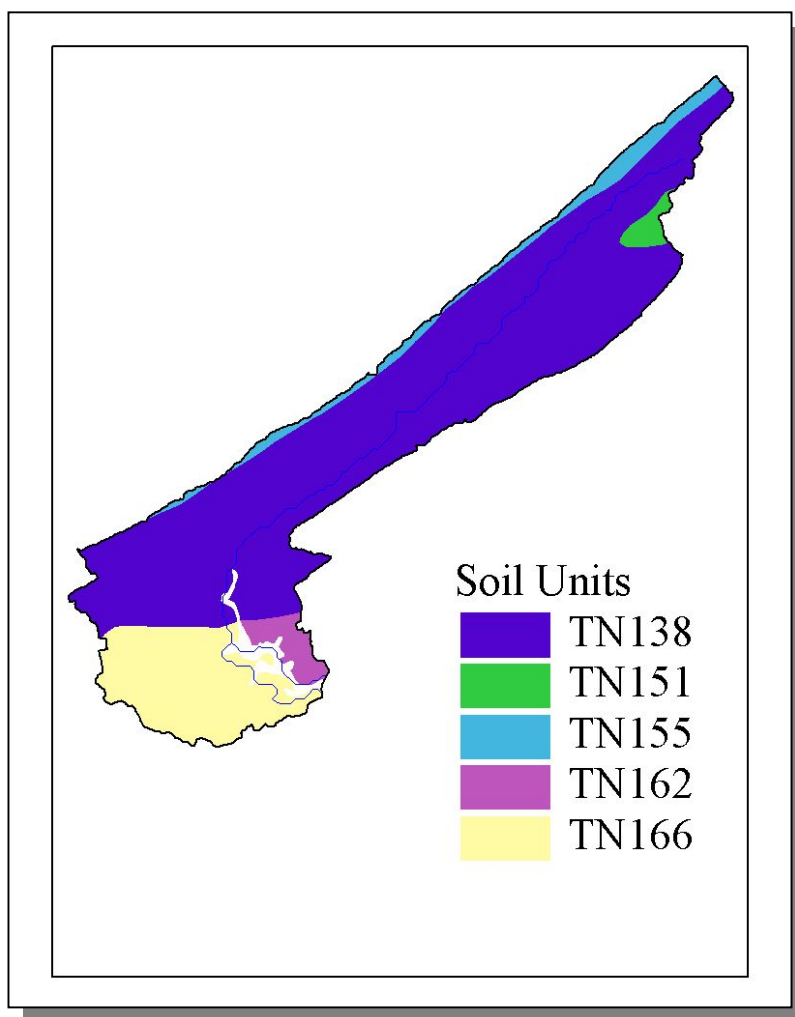
**Figure 4-80. Illustration of Land Use Distribution in Subwatershed 060101040205.**

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**Figure 4-81. Land Use Distribution in Subwatershed 060101040205.** More information is provided in Appendix IV.





**Figure 4-82. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040205.**

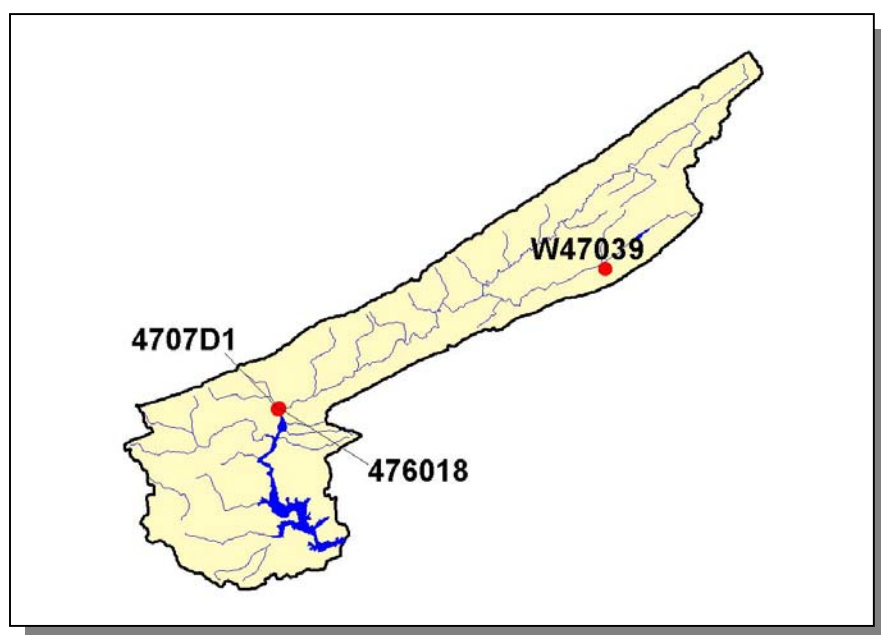
STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN138	0.00	C	2.48	4.26	Sandy Loam	0.22
TN151	0.00	C	2.88	4.75	Loam	0.40
TN155	0.00	C	1.71	5.31	Loam	0.32
TN162	1.00	C	1.52	6.20	Loam	0.36
TN166	1.00	C	2.36	5.06	Loam	0.30

**Table 4-67. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040205.** The definition of "Hydrologic Group" is provided in Appendix IV.

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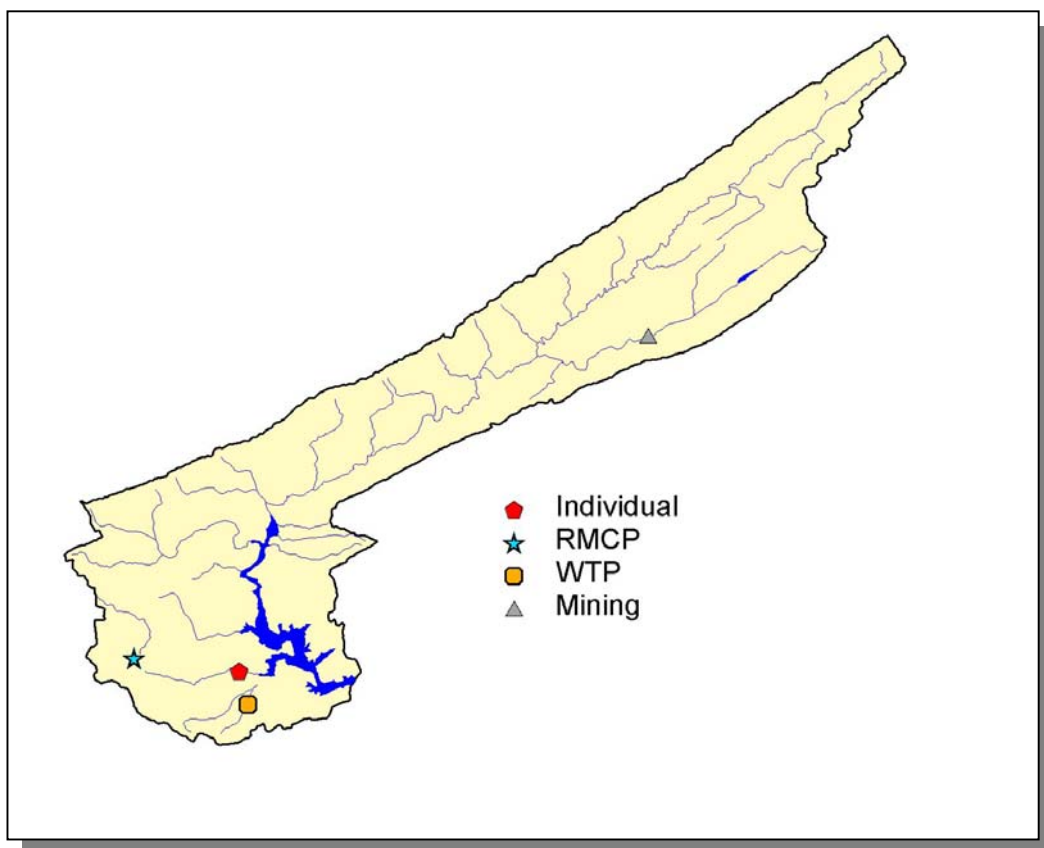
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Grainger	17,095	19,456	20,659	0.45	78	88	94	20.5
Hancock	6,739	6,801	6,786	0.09	6	6	6	0.0
Hawkins	44,565	48,821	53,563	10.44	4,653	5,098	5,593	20.2
<b>Total</b>	<b>68,399</b>	<b>75,078</b>	<b>81,008</b>		<b>4,737</b>	<b>5,192</b>	<b>5,693</b>	<b>20.2</b>

**Table 4-68. Population Estimates in Subwatershed 060101040205.**

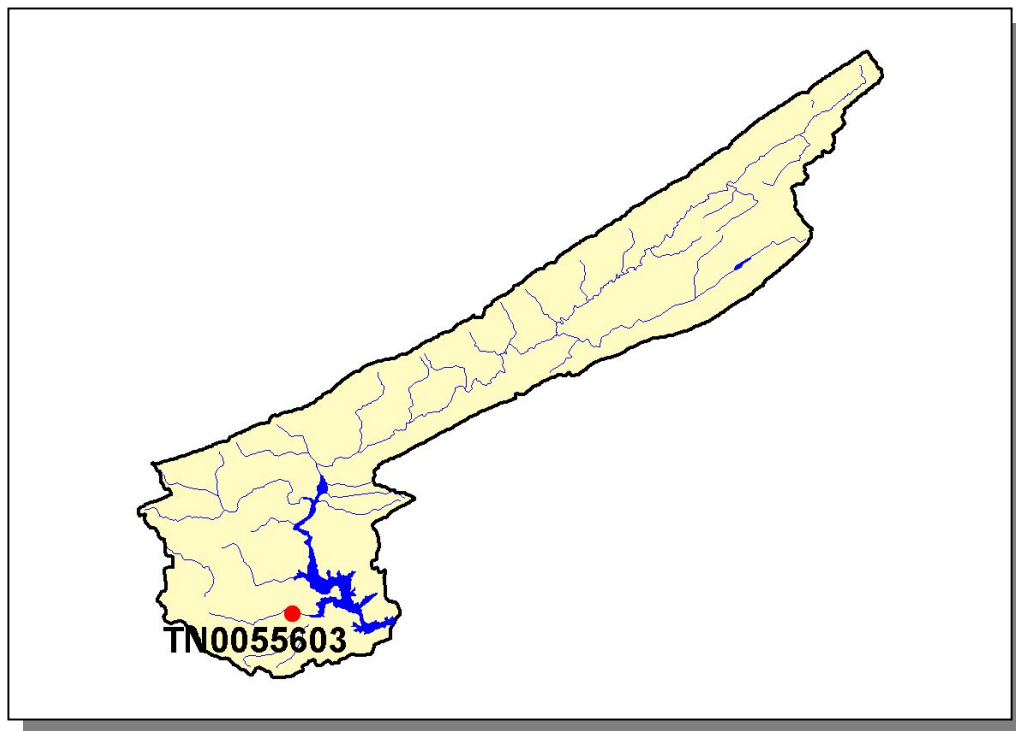


**Figure 4-83. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040205. More information, including site names and locations, is provided in Appendix IV.**

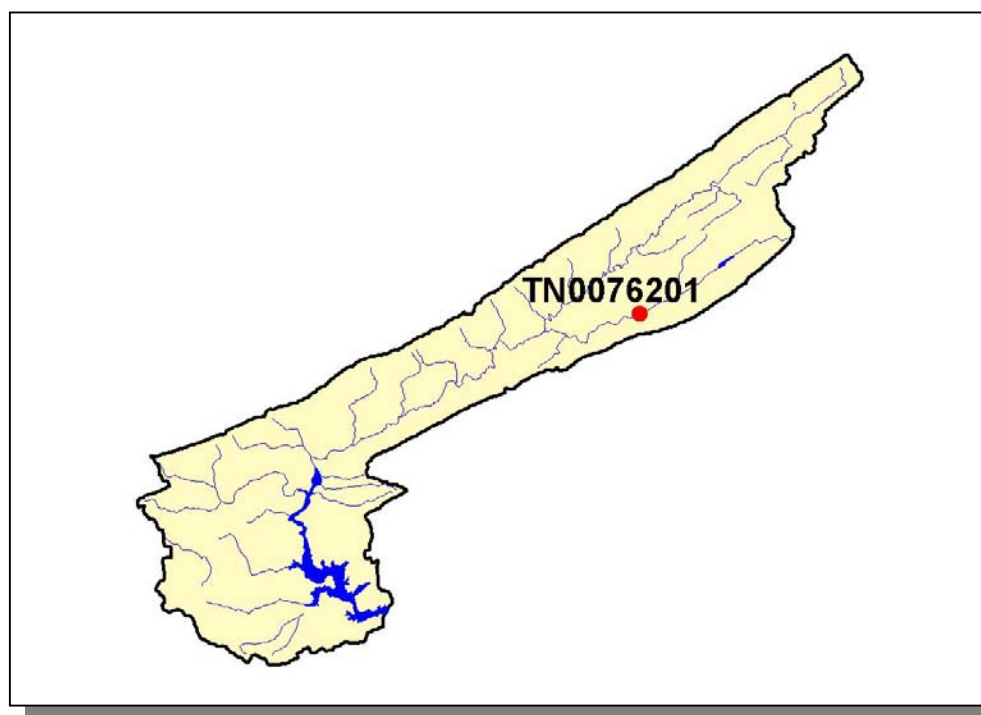
**4.2.B.v.a. Point Source Contributions.**



**Figure 4-84. Location of Permits Issued in Subwatershed 060101040205.** More information, including the names of facilities, is provided in Appendix IV.



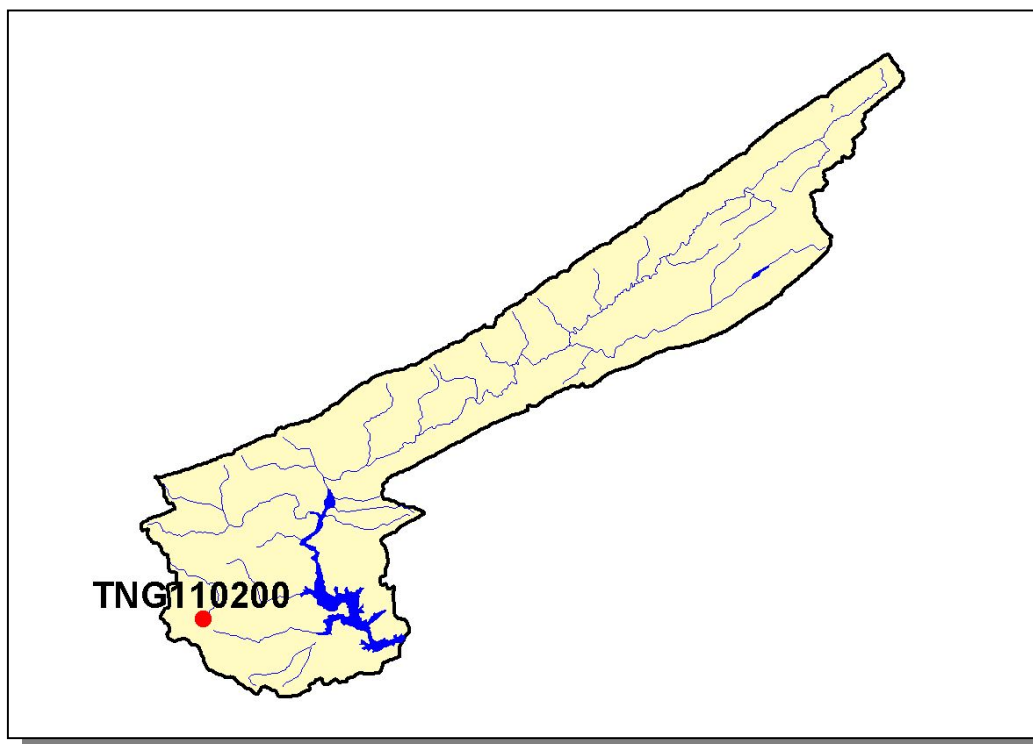
**Figure 4-85. Location of Active NPDES Sites in Subwatershed 060101040205.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-86. Location of Active Mining Sites in Subwatershed 060101040205.** More information, including the names of mining operations, is provided in Appendix IV.



**Figure 4-87. Location of Water Treatment Plants in Subwatershed 060101040205.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-88. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 060101040205.** More information is provided in Appendix IV.

**4.2.B.v.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,367	2,652	68	<5	34	18

**Table 4-69. Summary of Livestock Count Estimates in Subwatershed 060101040205.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Grainger	12,115	23,927	942	1,184	510	195
Hancock	7,079	14,311	89	364	0	67
Hawkins	18,796	36,429	903	1,079	442	243

**Table 4-70. Summary of Livestock Count Estimates in Grainger, Hancock, and Hawkins Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

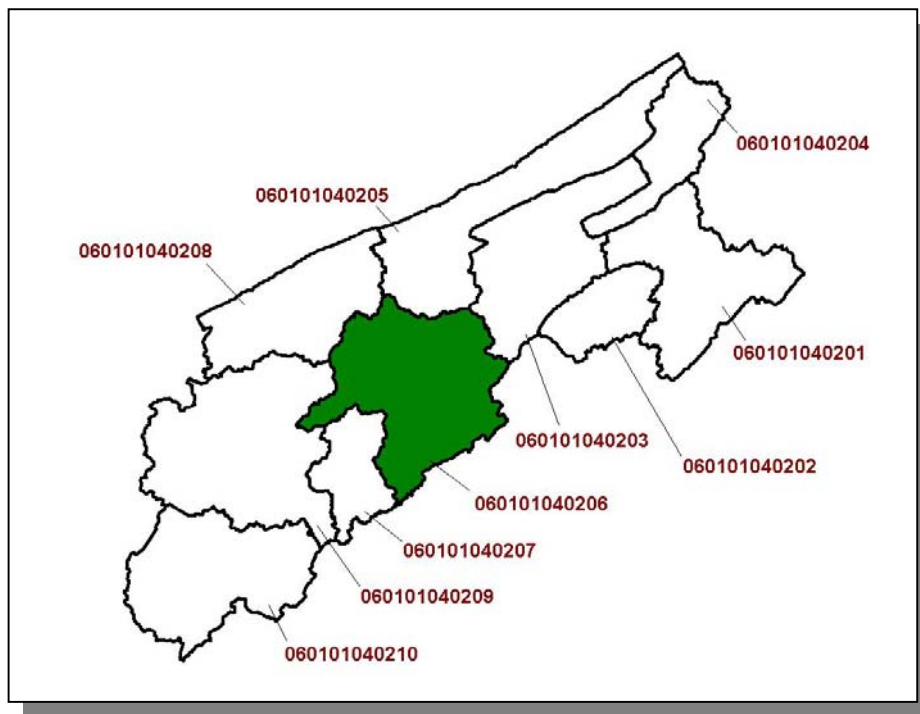
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grainger	102.6	102.6	0.3	1.8
Hancock	92.9	92.9	2.7	14.2
Hawkins	177.4	177.4	0.4	2.1

**Table 4-71. Forest Acreage and Annual Removal Rates (1987-1994) in Grainger, Hancock, and Hawkins Counties.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.29
Grass (Hayland)	0.55
Legumes, Grass (Hayland)	0.41
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.55
Corn (Row Crops)	5.29
Tobacco (Row Crops)	16.18
Other Vegetable and Truck Crops	33.50
Farmsteads and Ranch Headquarters	0.41

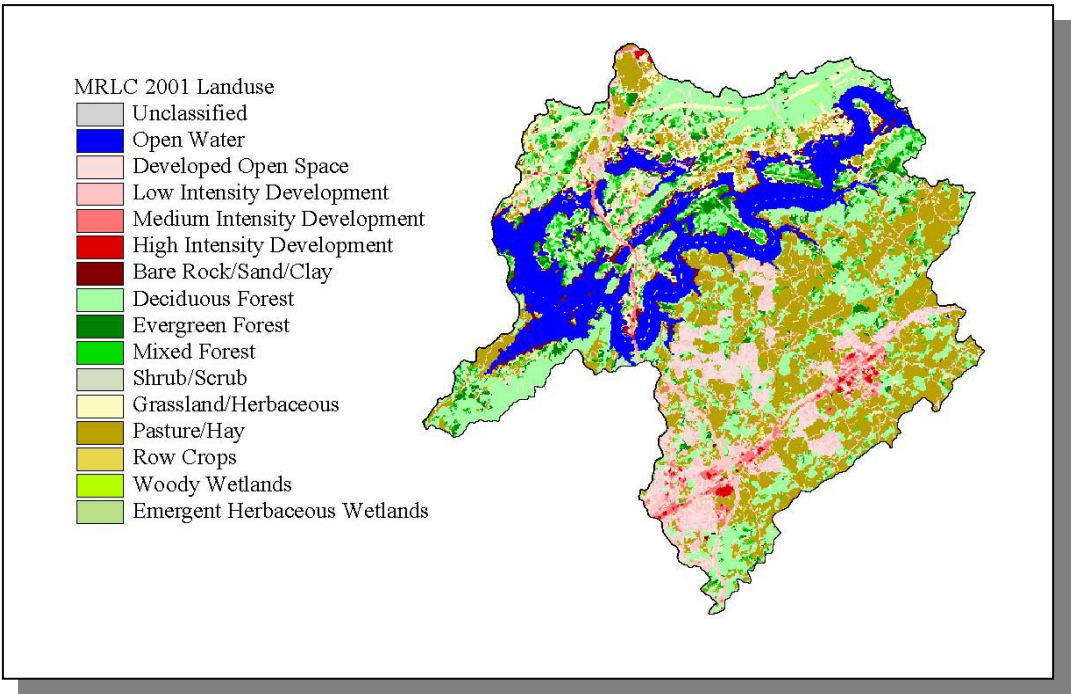
**Table 4-72. Annual Estimated Total Soil Loss in Subwatershed 060101040205.**

**4.2.B.vi. 060101040206 (Cherokee Lake).**



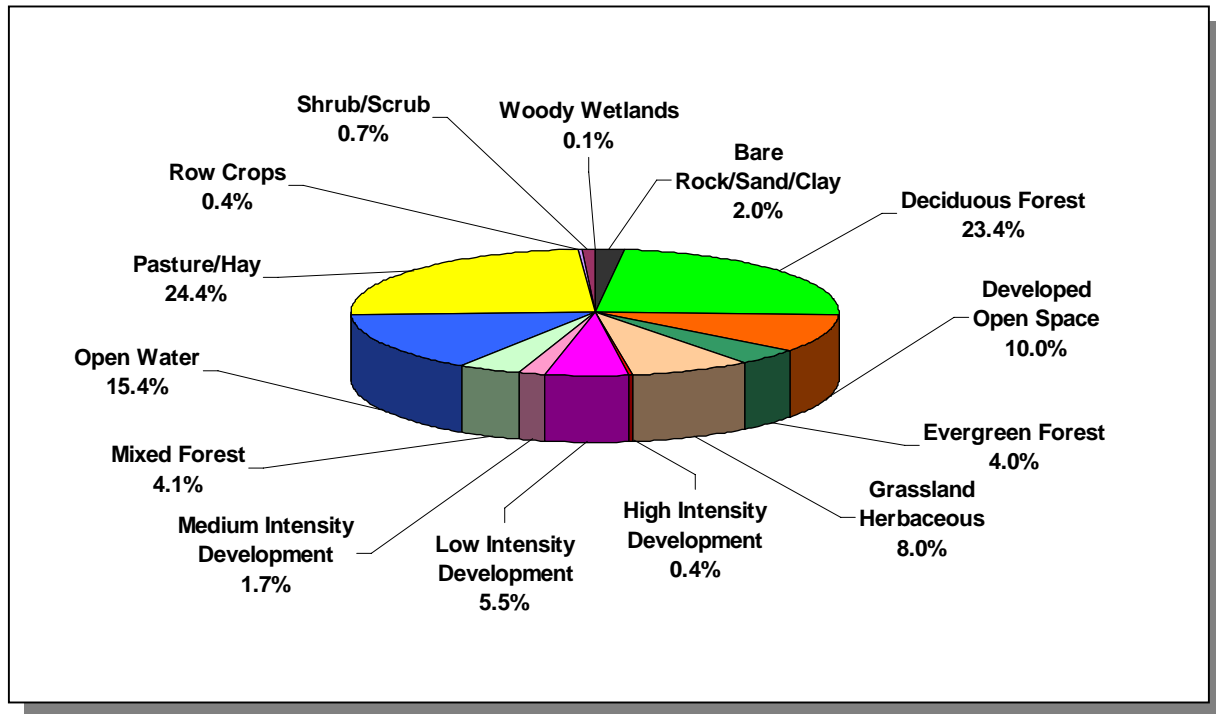
**Figure 4-89. Location of Subwatershed 060101040206.** All HUC-12 subwatershed boundaries are shown for reference.

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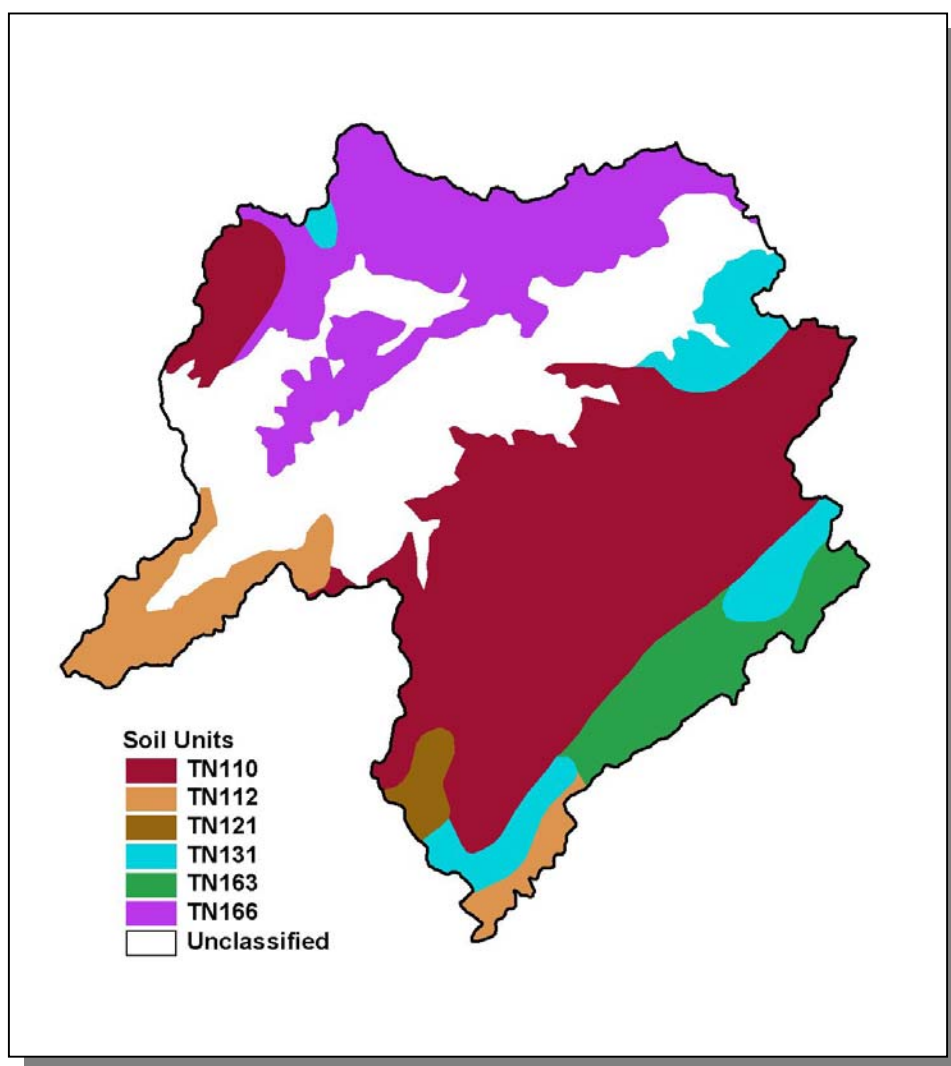
**Figure 4-90. Illustration of Land Use Distribution in Subwatershed 060101040206.**





**Figure 4-91. Land Use Distribution in Subwatershed 060101040206.** More information is provided in Appendix IV.

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**Figure 4-92. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040206.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN112	6.00	C	2.36	5.09	Loam	0.35
TN121	0.00	B	1.30	5.21	Loam	0.33
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN163	0.00	B	1.37	5.15	Loam	0.31
TN166	1.00	C	2.36	5.06	Loam	0.30

**Table 4-73. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040206.** The definition of "Hydrologic Group" is provided in Appendix IV.

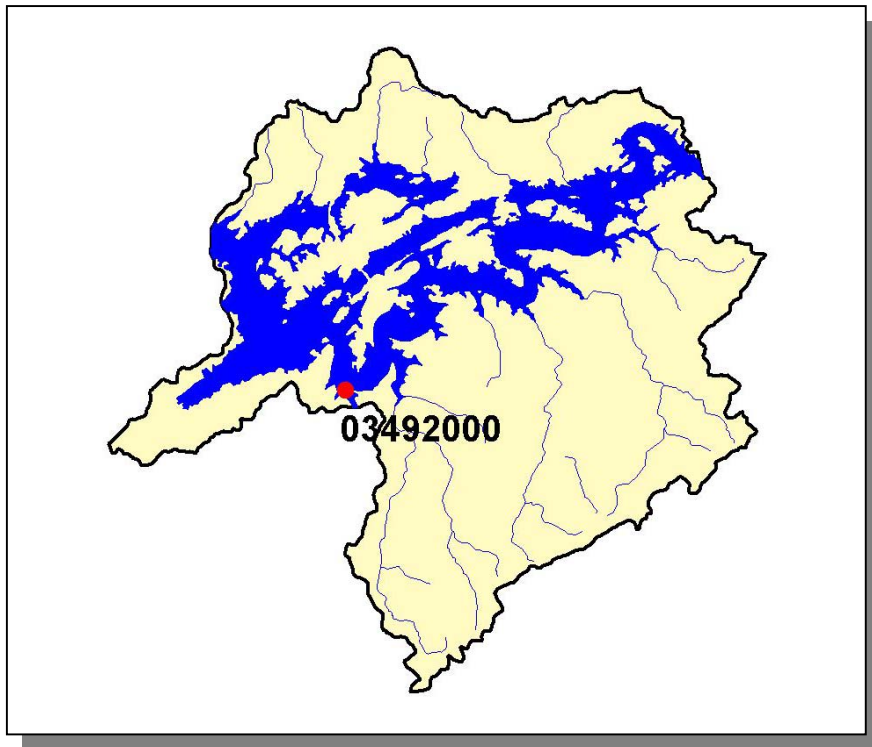
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Grainger	17,095	19,456	20,659	4.08	698	794	844	20.9
Hamblen	50,480	53,699	58,128	21.88	11,045	11,749	12,718	15.1
Hawkins	44,565	48,821	53,563	2.05	913	1,000	1,097	20.2
<b>Total</b>	<b>112,140</b>	<b>121,976</b>	<b>132,350</b>		<b>12,656</b>	<b>13,543</b>	<b>14,659</b>	<b>15.8</b>

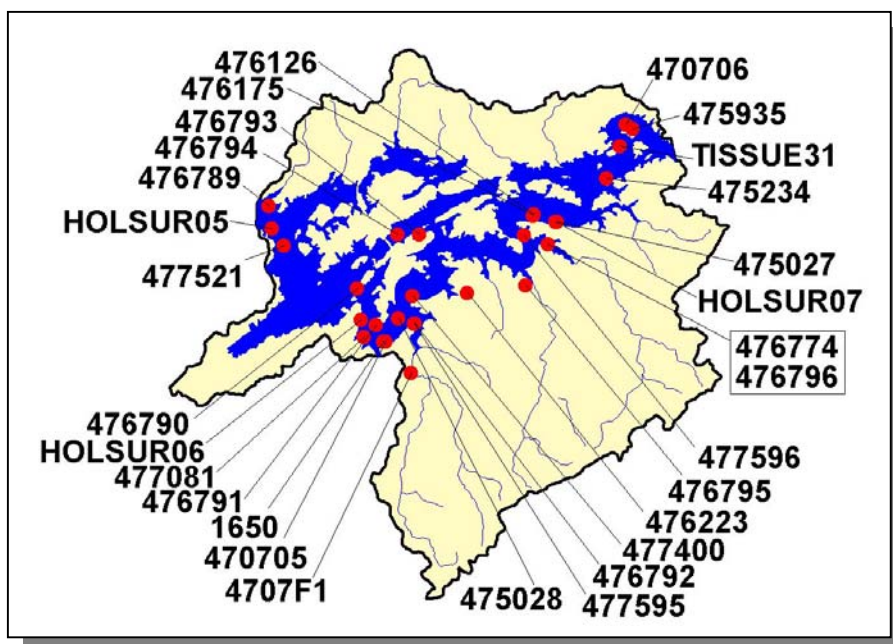
**Table 4-74. Population Estimates in Subwatershed 060101040206.**

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Morristown	Hamblen	21,385	9,248	8,768	466	14

**Table 4-75. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040206.**

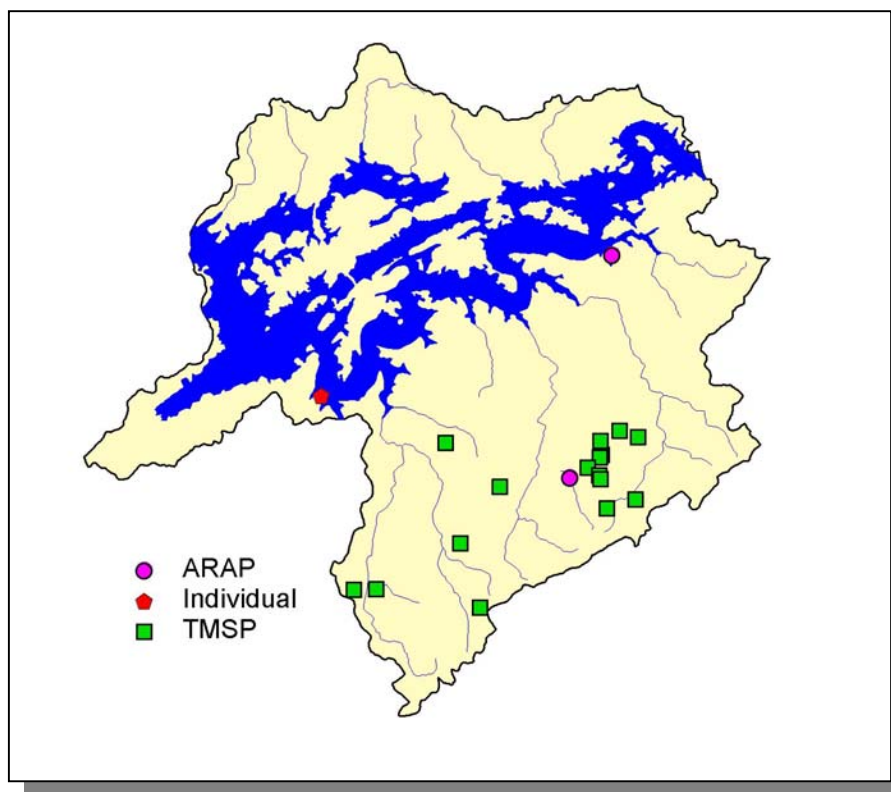


**Figure 4-93. Location of Historical Streamflow Data Collection Sites in Subwatershed 060101040206.** More information is provided in Appendix IV.

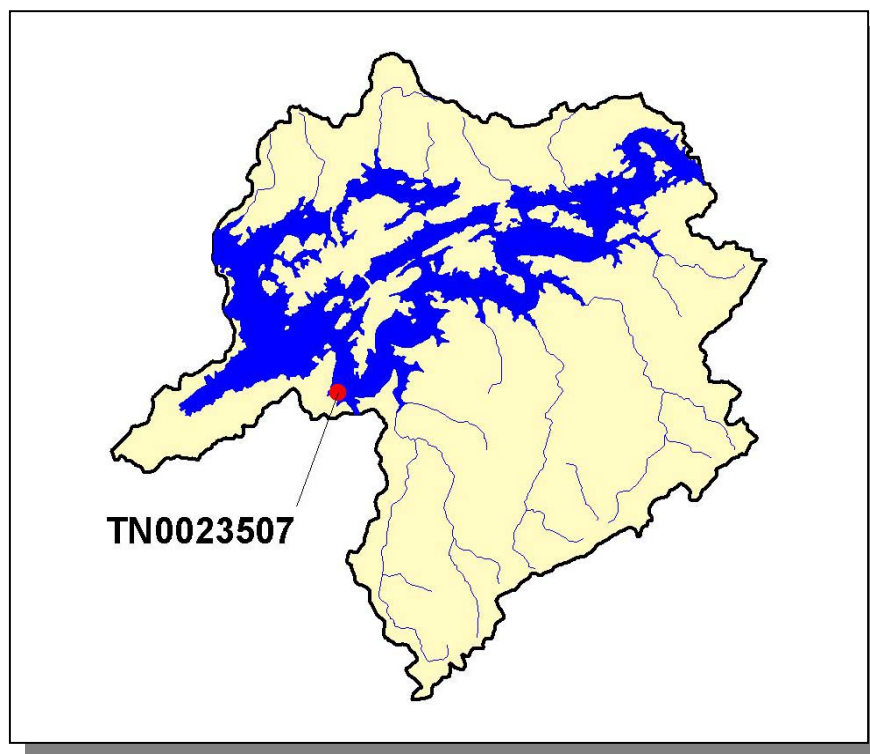


**Figure 4-94. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040206.** More information, including site names and locations, is provided in Appendix IV.

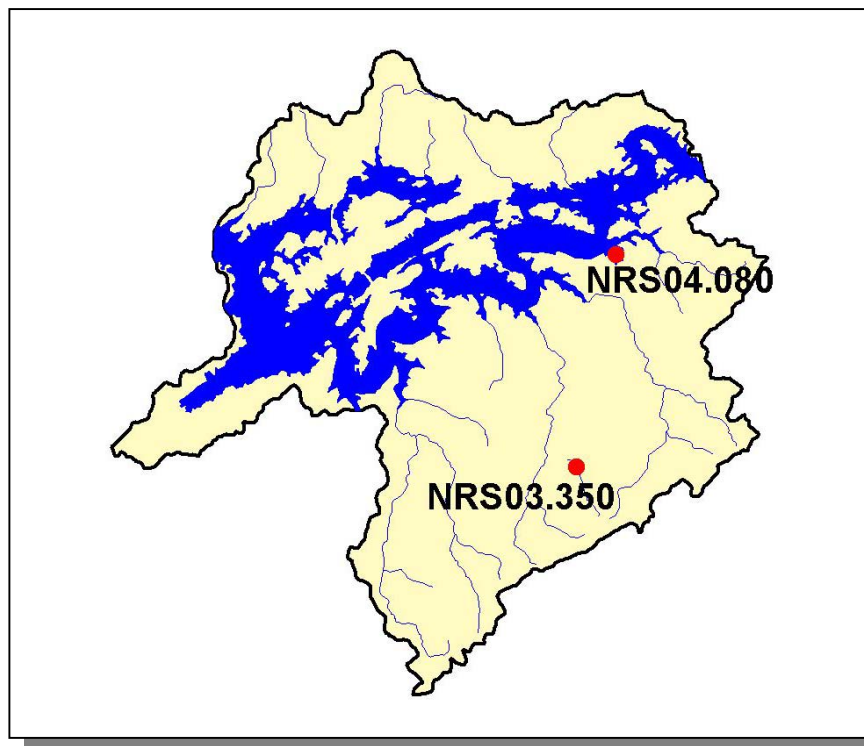
**4.2.B.vi.a. Point Source Contributions.**



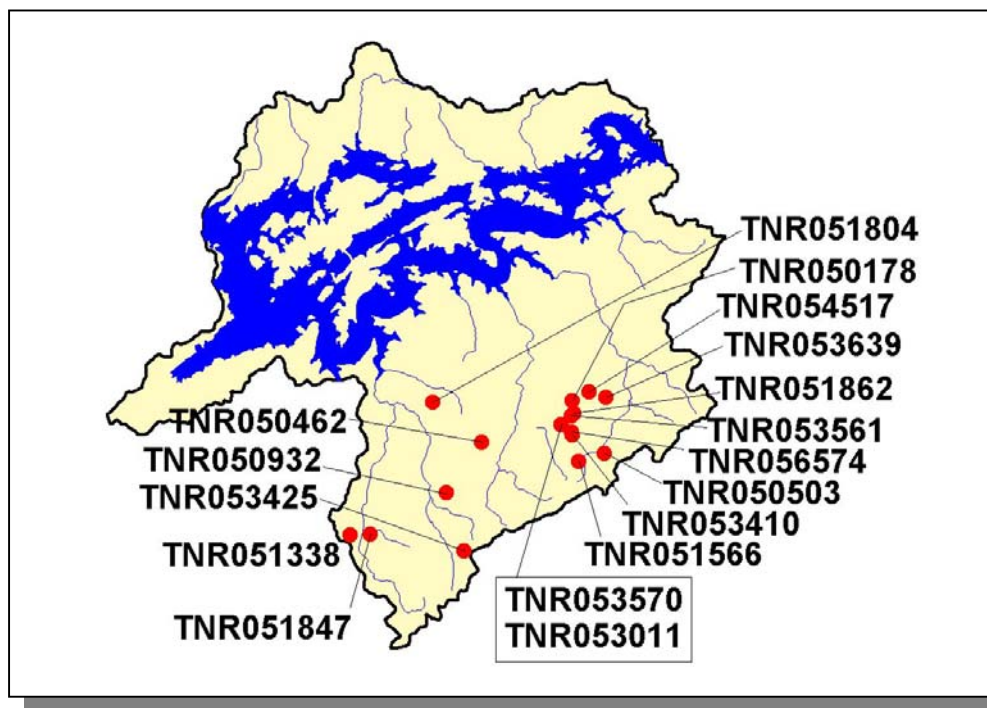
**Figure 4-95. Location of Permits Issued in Subwatershed 060101040206.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-96. Location of Active NPDES Sites in Subwatershed 060101040206.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-97. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060101040206.** More information is provided in Appendix IV.



**Figure 4-98. Location of TMSF Sites in Subwatershed 060101040206.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.B.vi.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
2,124	4,065	243	4	331,502	240	76

**Table 4-76. Summary of Livestock Count Estimates in Subwatershed 060101040206.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Grainger	12,115	23,927	942	1,184	0	510	195
Hamblen	8,620	16,376	1,129	233	1,776,000	1,195	367
Hawkins	18,796	36,429	903	1,079	0	442	243

**Table 4-77. Summary of Livestock Count Estimates in Grainger, Hamblen, and Hawkins Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grainger	102.6	102.6	0.3	1.8
Hamblen	32.8	32.8	0.0	0.0
Hawkins	177.4	177.4	0.4	2.1

**Table 4-78. Forest Acreage and Annual Removal Rates (1987-1994) in Grainger, Hamblen, and Hawkins Counties.**

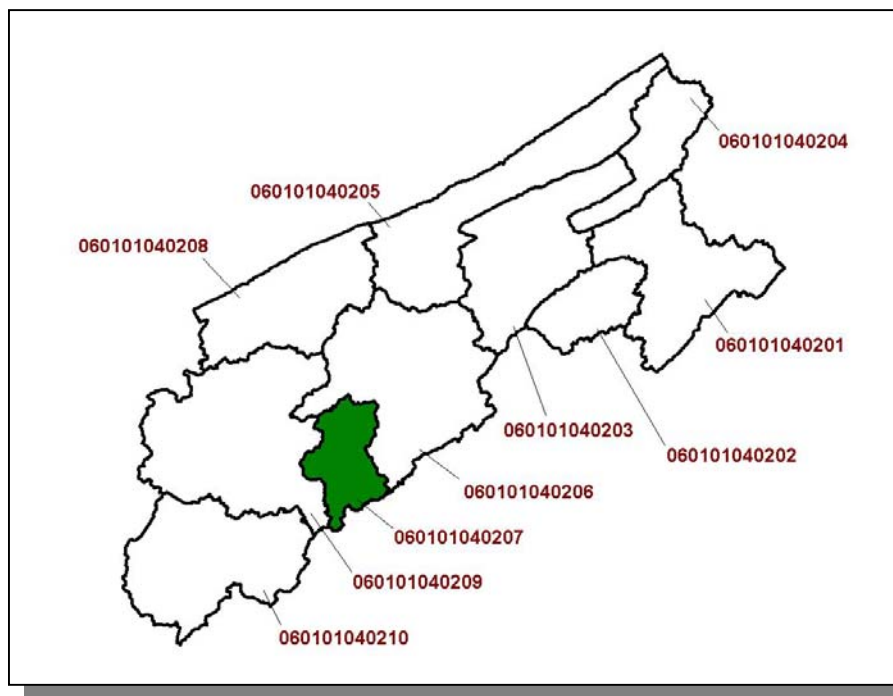


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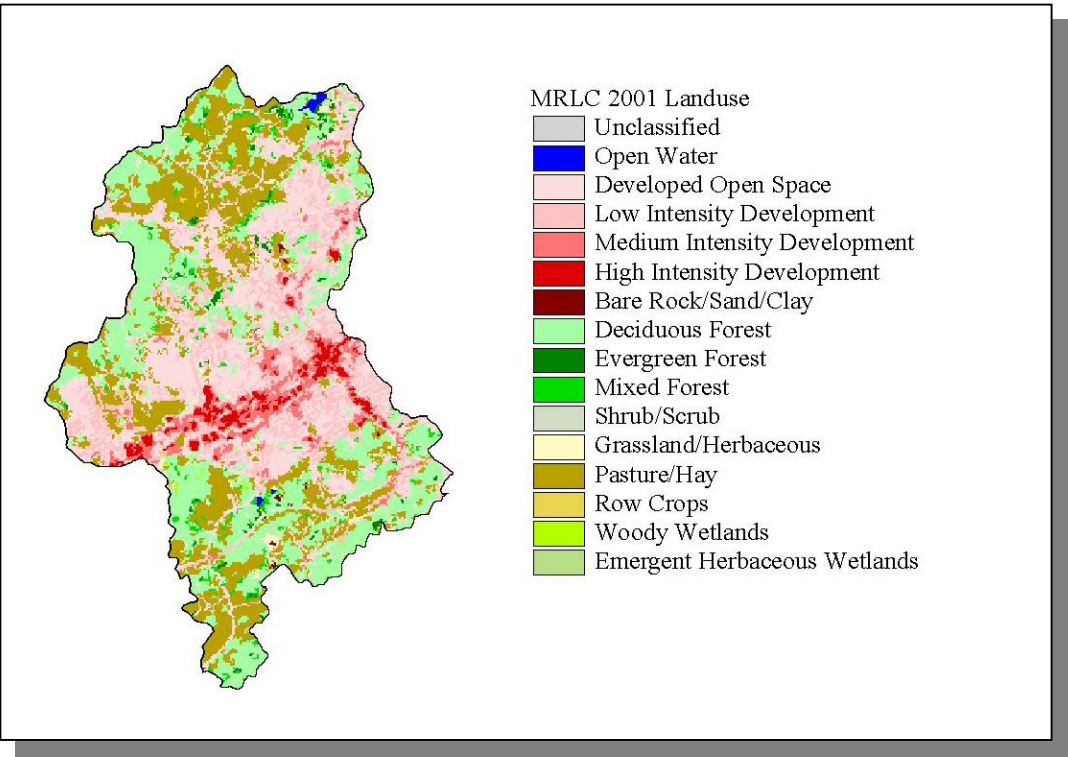
<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Grass (Pastureland)	0.61
Grass (Hayland)	0.39
Legumes, Grass (Hayland)	0.28
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.45
Corn (Row Crops)	12.64
Tobacco (Row Crops)	9.51
Other Vegetable and Truck Crops	33.50
Aquaculture in a Crop Rotation	0.15
Other Land in Farms	0.21
Farmsteads and Ranch Headquarters	0.26

**Table 4-79. Annual Estimated Total Soil Loss in Subwatershed 060101040206.**

**4.2.B.vii. 060101040207 Turkey Creek).**

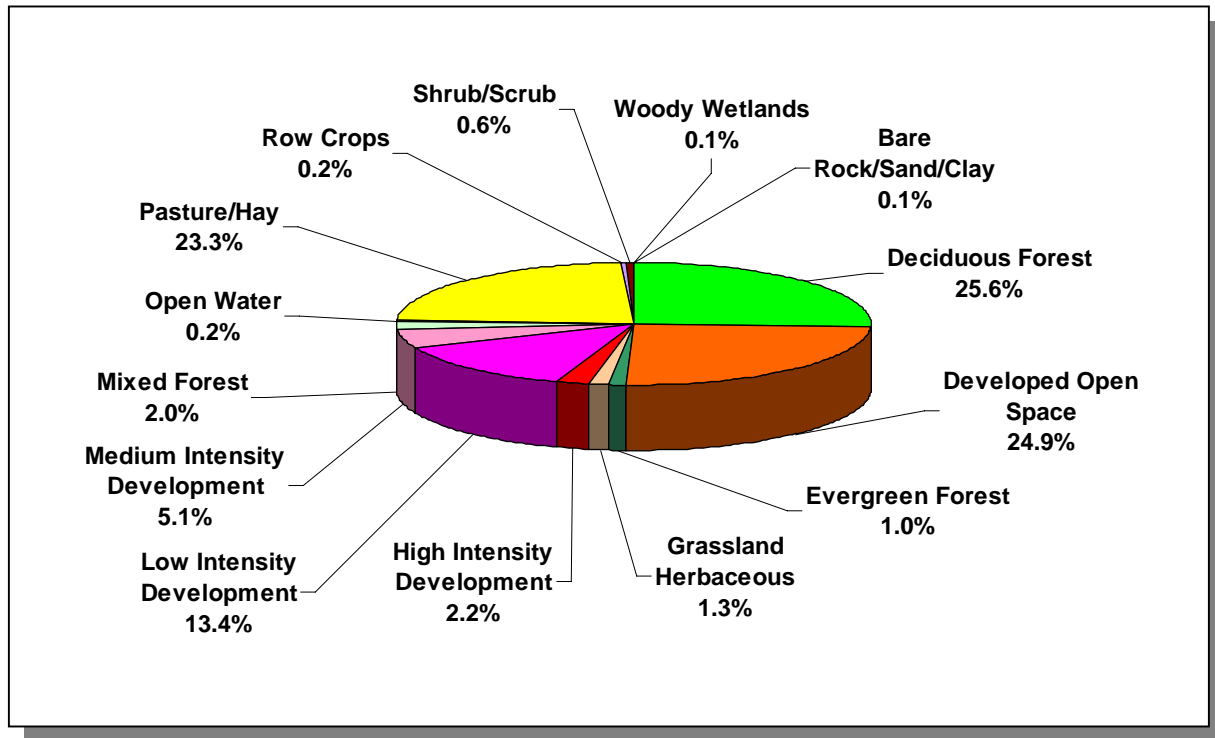


**Figure 4-99. Location of Subwatershed 060101040207.** All HUC-12 subwatershed boundaries are shown for reference.

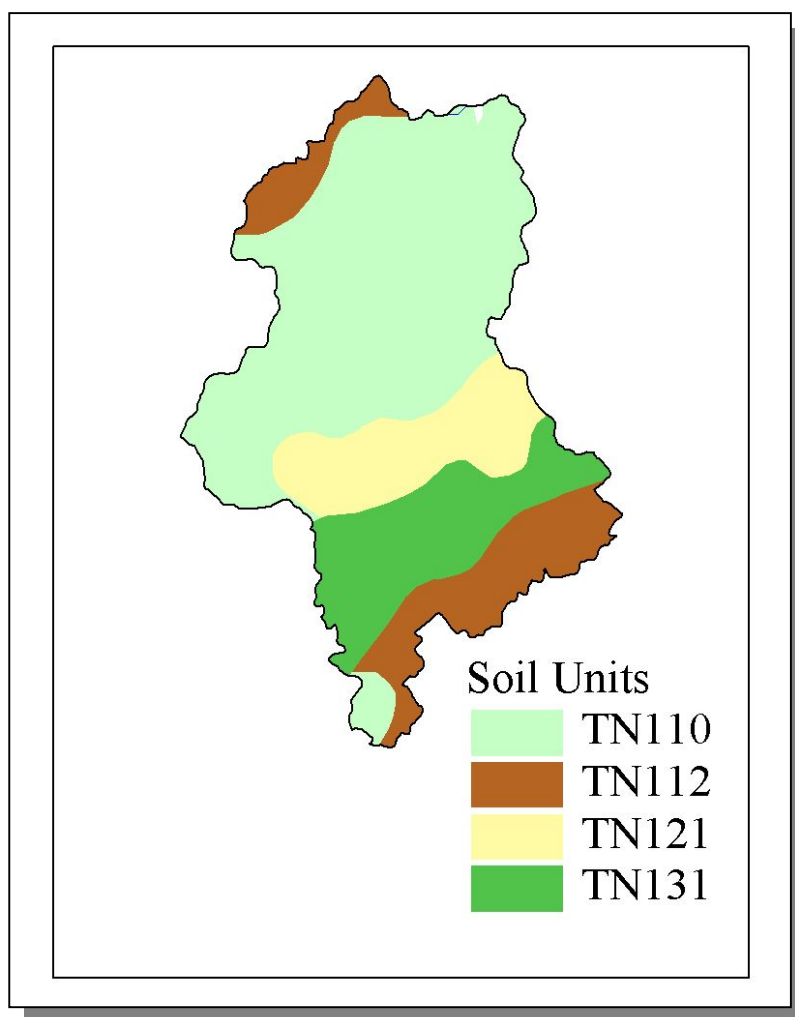


**Figure 4-100. Illustration of Land Use Distribution in Subwatershed 060101040207.**

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**Figure 4-101. Land Use Distribution in Subwatershed 060101040207.** More information is provided in Appendix IV.



**Figure 4-102. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040207.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN112	6.00	C	2.36	5.09	Loam	0.35
TN121	0.00	B	1.30	5.21	Loam	0.33
TN131	0.00	C	1.17	4.95	Silty Loam	0.33

**Table 4-80. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040207.** The definition of "Hydrologic Group" is provided in Appendix IV.

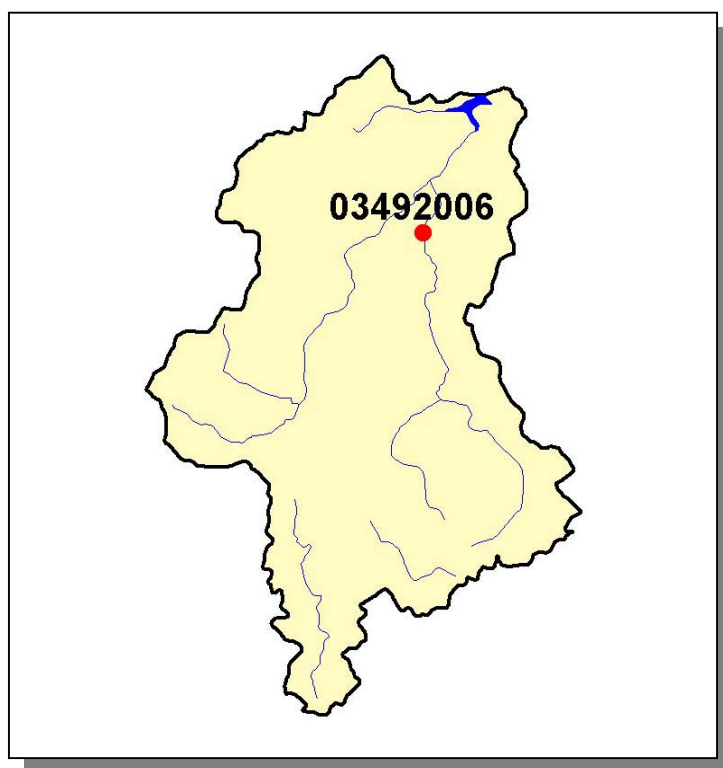
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamblen	50,480	53,699	58,128	10.49	5,295	5,633	6,098	15.2

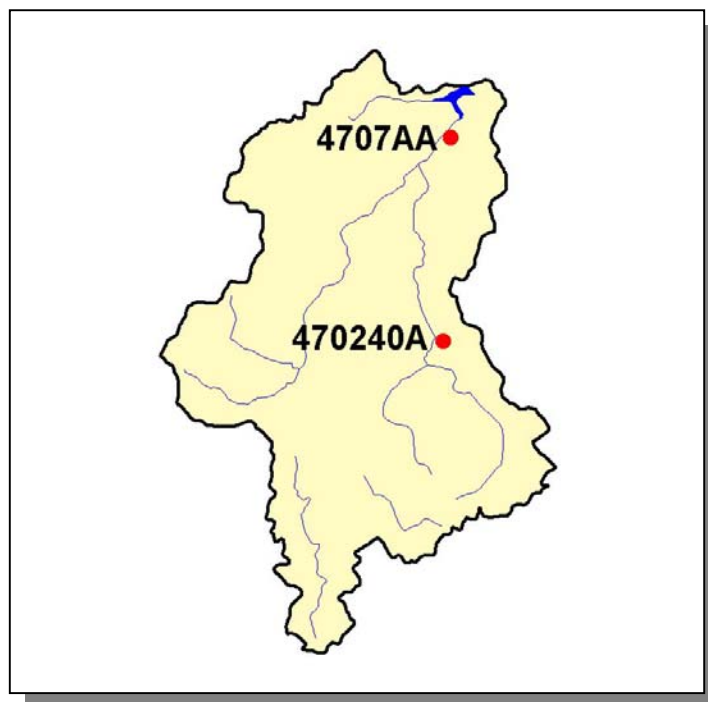
**Table 4-81. Population Estimates in Subwatershed 060101040207.**

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Morristown	Hamblen	21,385	9,248	8,768	466	14

**Table 4-82. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040207.**

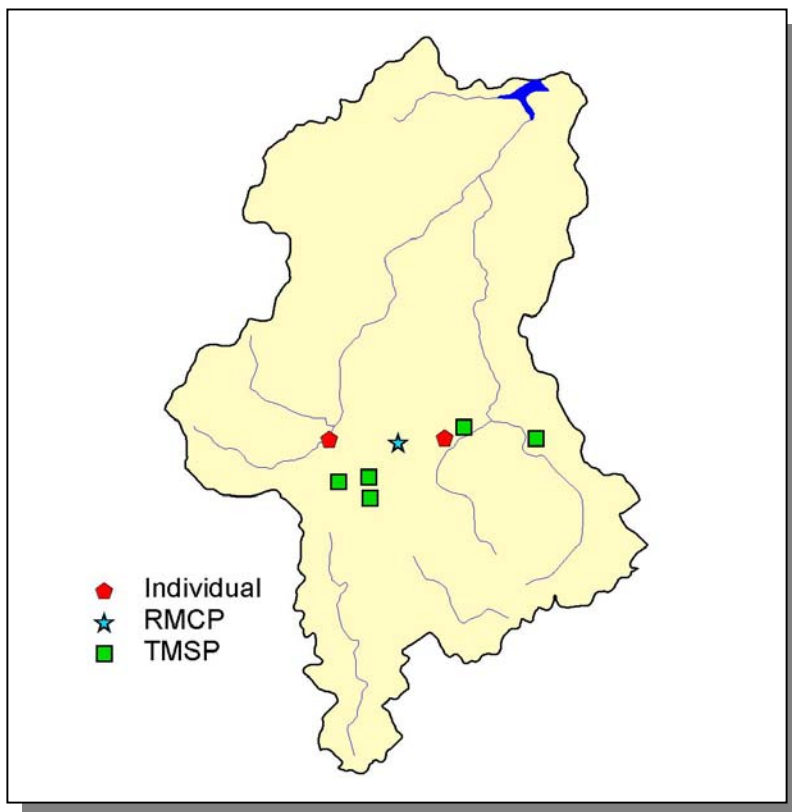


**Figure 4-103. Location of Historical Streamflow Data Collection Sites in Subwatershed 060101040207. More information is provided in Appendix IV.**



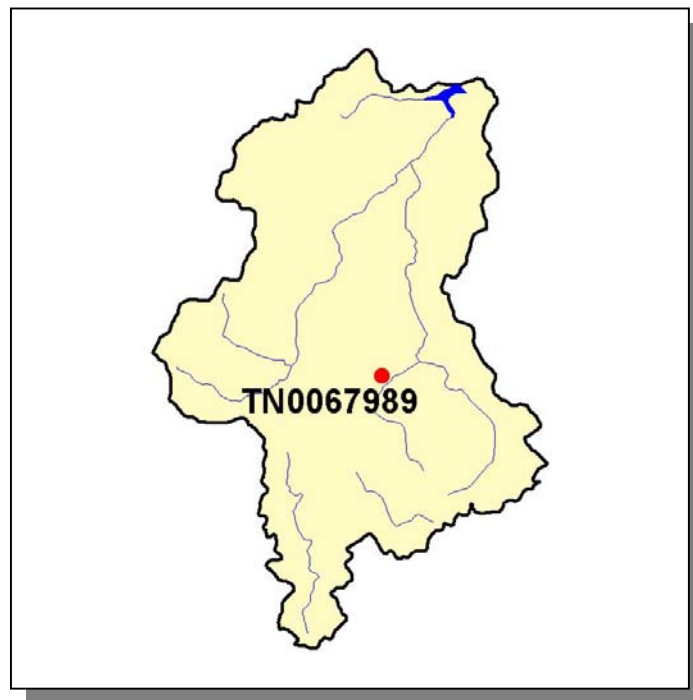
**Figure 4-104. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040207.** More information, including site names and locations, is provided in Appendix IV.

**4.2.B.vii.a. Point Source Contributions.**



**Figure 4-105. Location of Permits Issued in Subwatershed 060101040207.** More information, including the names of facilities, is provided in Appendix IV.

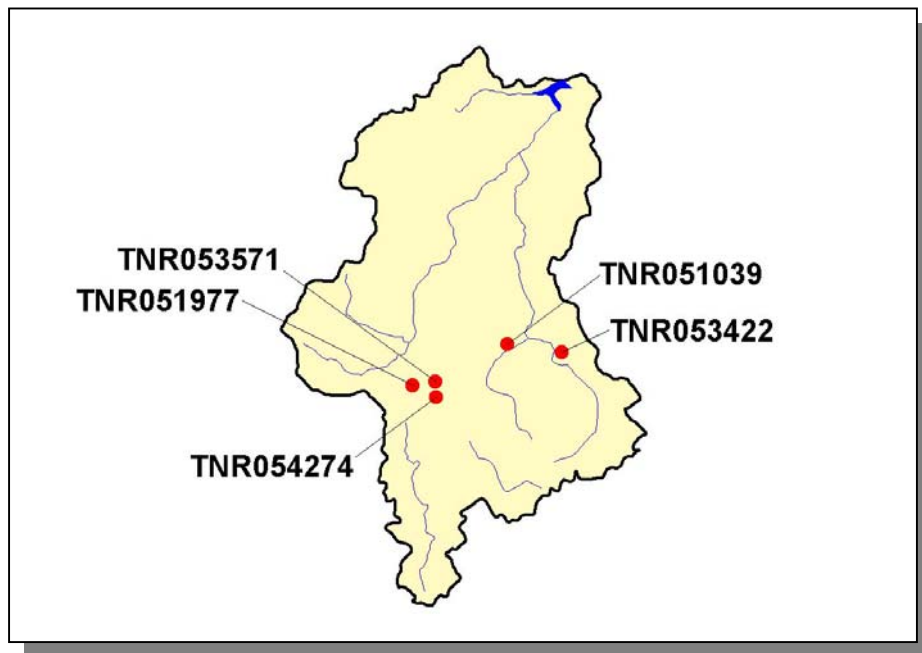




**Figure 4-106. Location of Active NPDES Sites in Subwatershed 060101040207.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-107. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 060101040207.** More information is provided in Appendix IV.



**Figure 4-108. Location of TMSP Sites in Subwatershed 060101040207.** More information, including the names of facilities, is provided in Appendix IV.

**4.2.B.vii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List**

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 060101040207:

- TN0067989 (Koch Foods, LLC) discharges to West Fork Turkey Creek @ RM 0.1

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**Figure 4-109. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 060101040207.** More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0067989					

**Table 4-83. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040207.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	FLOW
TN0067989	X

**Table 4-84. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040207.**

PERMIT #	CBOD <sub>5</sub>	NH <sub>3</sub>	NO <sub>3</sub>	TSS	OIL AND GREASE	DO	pH
TN0067989	X	X	X	X	X	X	X

**Table 4-85. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 060101040207.** WET, Whole Effluent Toxicity; CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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**4.2.B.vii.b. Nonpoint Source Contributions.**

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
603	1,146	79	<5	124,299	84	26

**Table 4-86. Summary of Livestock Count Estimates in Subwatershed 060101040207.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamblen	8,620	16,376	1,129	233	1,776,000	1,195	367

**Table 4-87. Summary of Livestock Count Estimates in Hamblen County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

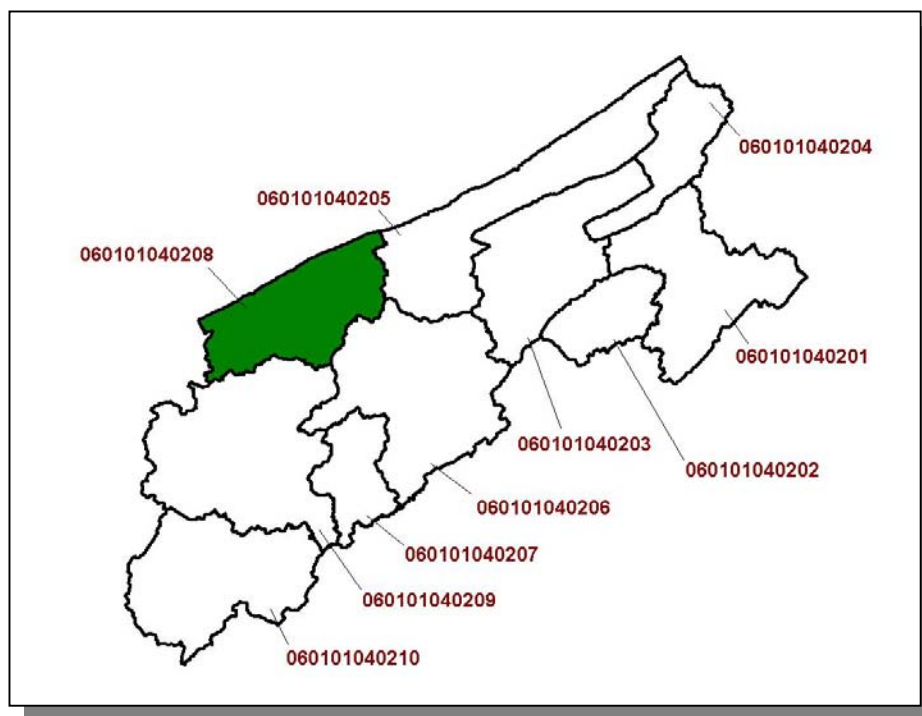
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamblen	32.8	32.8	0.0	0.0

**Table 4-88. Forest Acreage and Annual Removal Rates (1987-1994) in Hamblen County.**

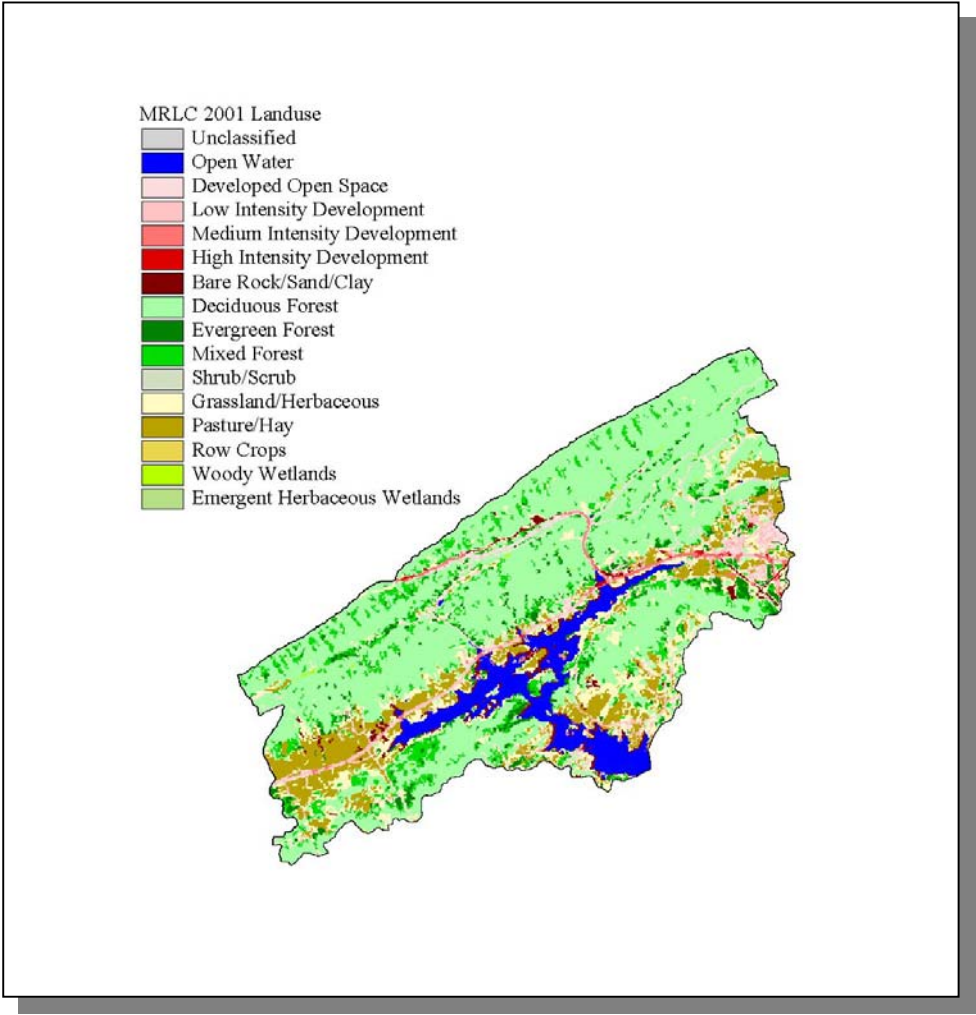
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.57
Grass (Hayland)	0.36
Legumes, Grass (Hayland)	0.15
Grass, Forbs, Legumes (Mixed Pasture)	0.30
Corn (Row Crops)	14.92
Tobacco (Row Crops)	8.43
Aquaculture in a Crop Rotation	0.15
Other Land in Farms	0.21
Farmsteads and Ranch Headquarters	0.13

**Table 4-89. Annual Estimated Total Soil Loss in Subwatershed 060101040207.**

**4.2.B.viii. 060101040208 (German Creek).**

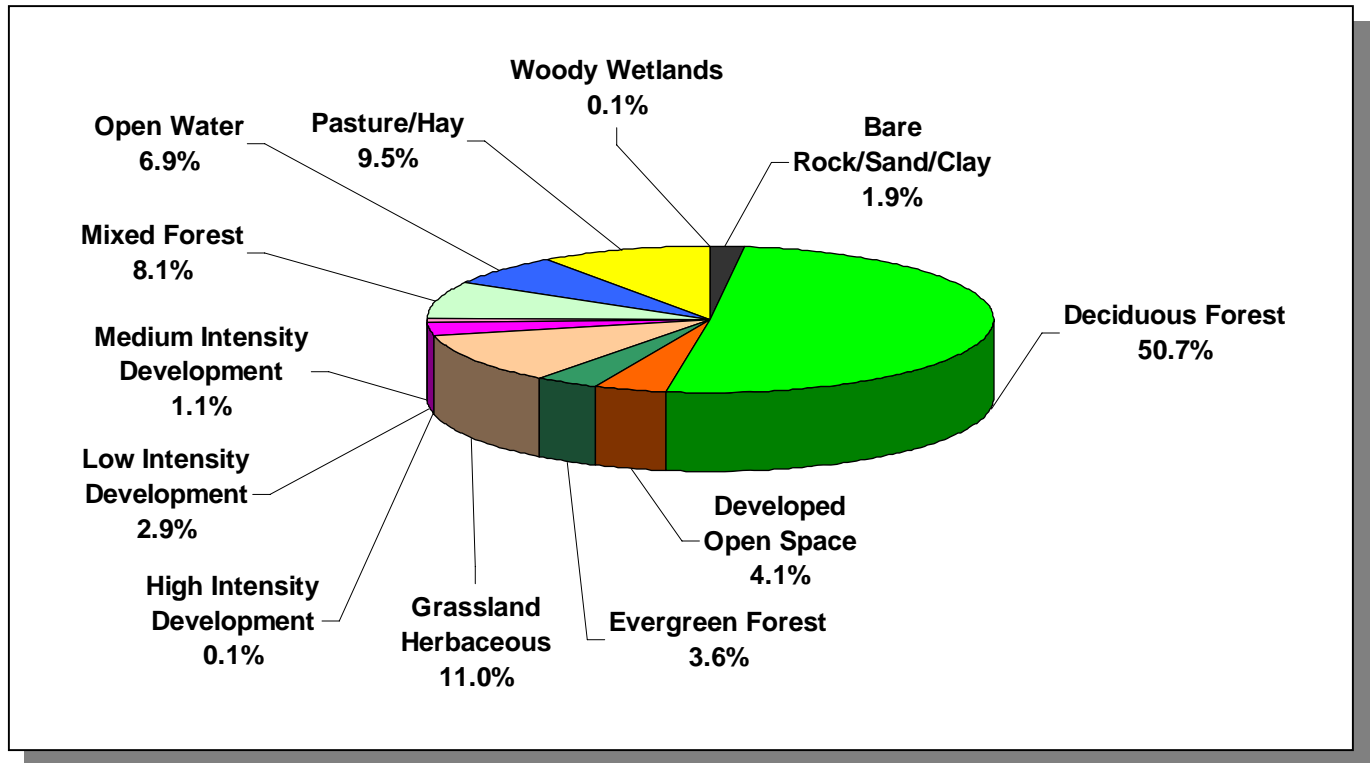


**Figure 4-110. Location of Subwatershed 060101040208.** All HUC-12 subwatershed boundaries are shown for reference.



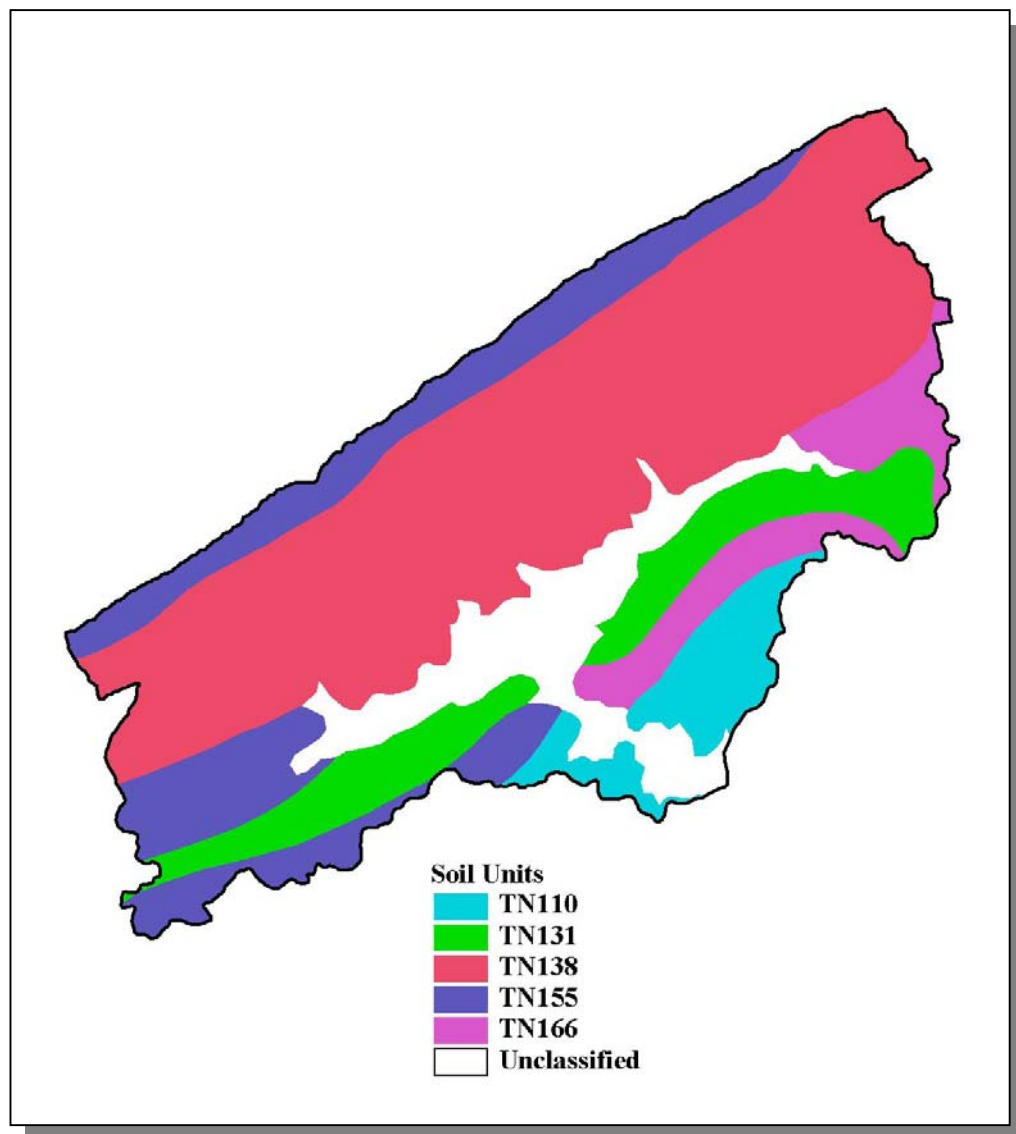
*Figure 4-111. Illustration of Land Use Distribution in Subwatershed 060101040208.*

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**Figure 4-112. Land Use Distribution in Subwatershed 060101040208.** More information is provided in Appendix IV.

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**Figure 4-113. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040208.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN138	0.00	C	2.48	4.26	Sandy Loam	0.22
TN155	0.00	C	1.71	5.31	Loam	0.32
TN166	1.00	C	2.36	5.06	Loam	0.30

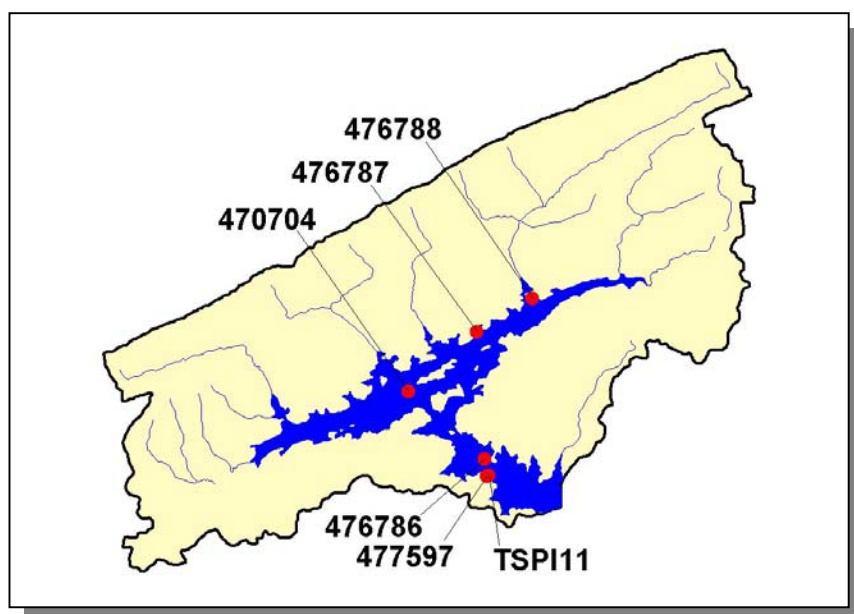
**Table 4-90. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040208.** The definition of "Hydrologic Group" is provided in Appendix IV.



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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Grainger	17,095	19,456	20,659	12.92	2,208	2,513	2,668	20.8
Hancock	6,739	6,801	6,786	0.13	9	9	9	0.0
Hawkins	44,565	48,821	53,563	0.01	5	5	6	20.0
<b>Total</b>	<b>68,399</b>	<b>75,078</b>	<b>81,008</b>		<b>2,222</b>	<b>2,527</b>	<b>2,683</b>	<b>20.7</b>

**Table 4-91. Population Estimates in Subwatershed 060101040208.**



**Figure 4-114. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040208.** More information, including site names and locations, is provided in Appendix IV.

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**4.2.B.viii.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.B.viii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
869	1,715	68	<5	37	14

**Table 4-92. Summary of Livestock Count Estimates in Subwatershed 060101040208.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Grainger	12,115	23,927	942	1,184	510	195
Hancock	7,079	14,311	89	364	0	67
Hawkins	18,796	36,429	903	1,079	442	243

**Table 4-93. Summary of Livestock Count Estimates in Grainger, Hancock, and Hawkins Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grainger	102.6	102.6	0.3	1.8
Hancock	92.9	92.9	2.7	14.2
Hawkins	177.4	177.4	0.4	2.1

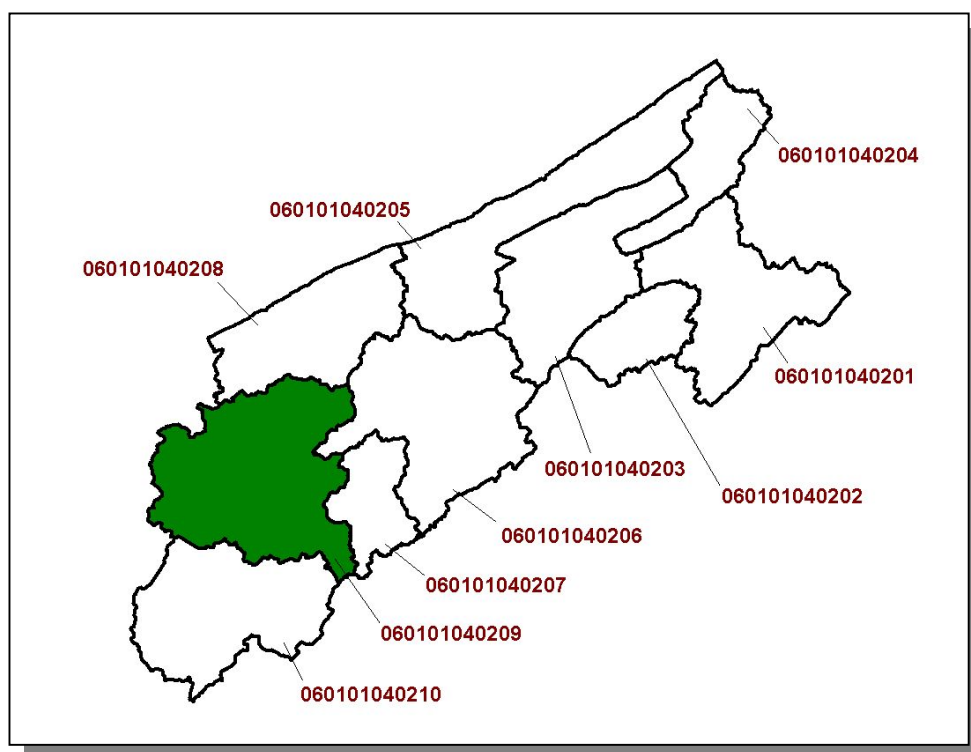
**Table 4-94. Forest Acreage and Annual Removal Rates (1987-1994) in Grainger, Hancock, and Hawkins Counties.**

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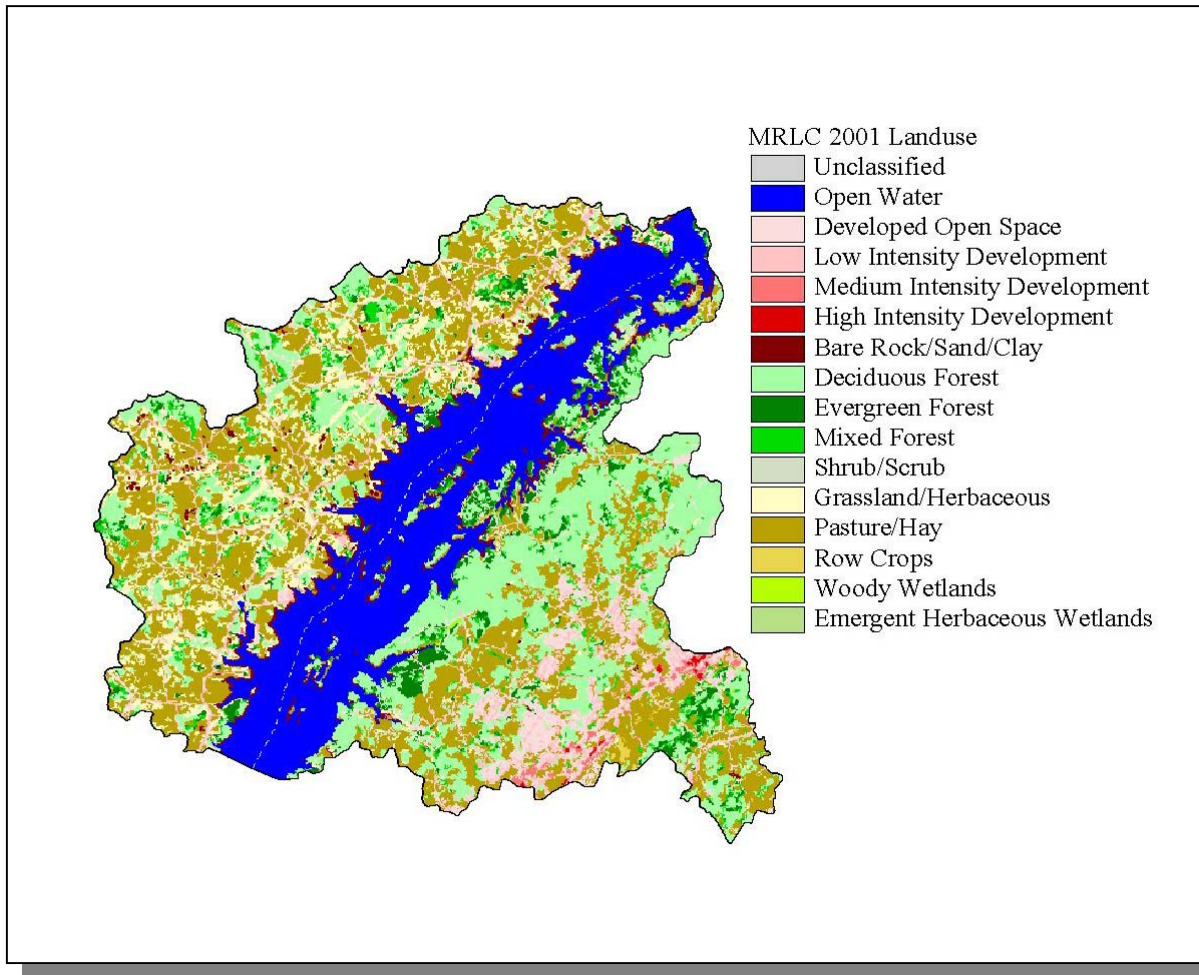
CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.01
Grass (Hayland)	0.32
Legumes, Grass (Hayland)	0.60
Legumes (Hayland)	0.16
Grass, Forbs, Legumes (Mixed Pasture)	0.84
Corn (Row Crops)	5.67
Tobacco (Row Crops)	7.34
Other Vegetable and Truck Crops	33.50
Farmsteads and Ranch Headquarters	0.52

**Table 4-95. Annual Estimated Total Soil Loss in Subwatershed 060101040208.**

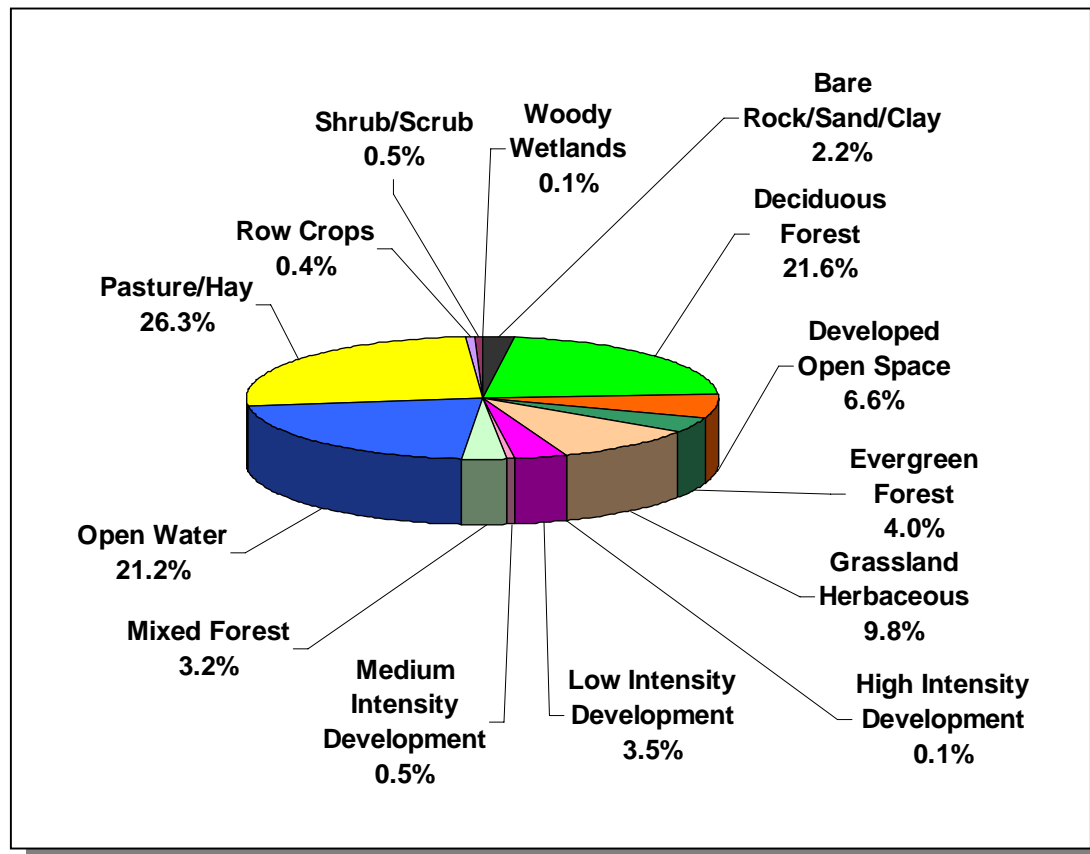
**4.2.B.ix.** 060101040209 (Cherokee Lake).



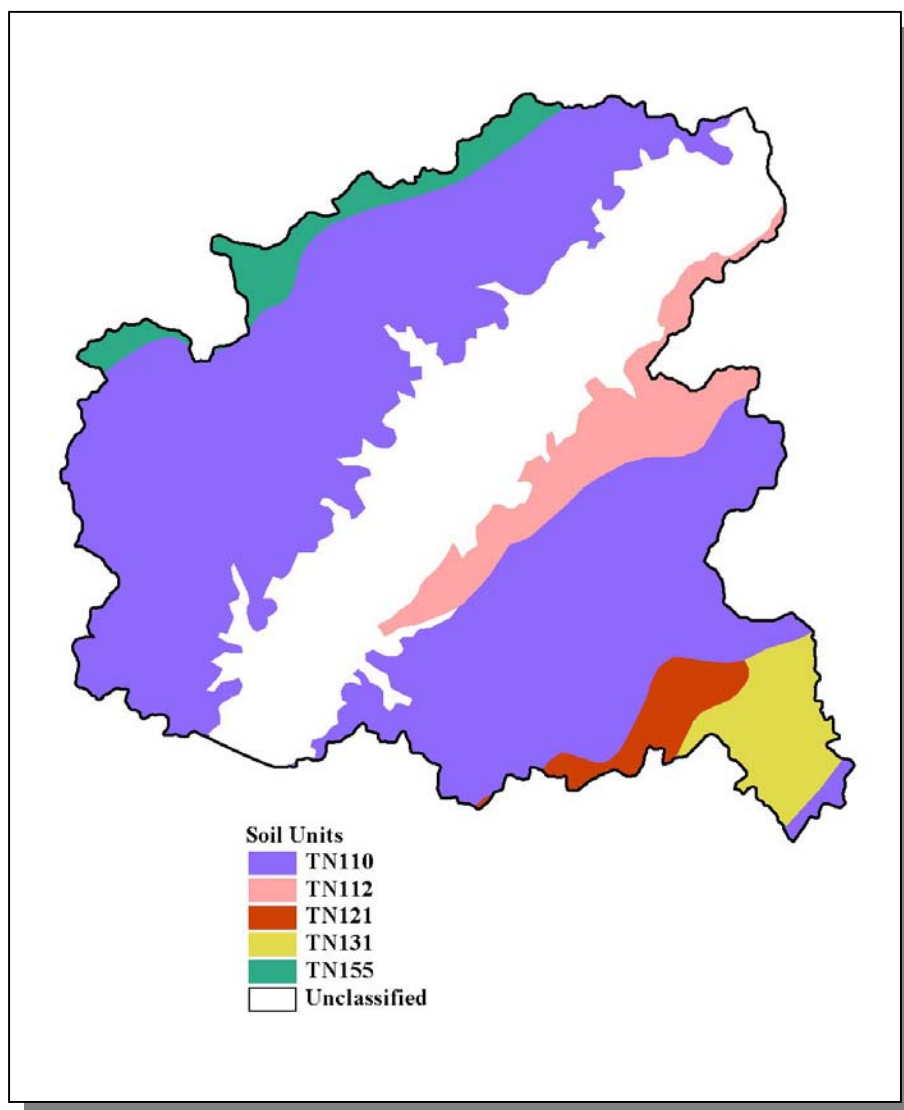
**Figure 4-115. Location of Subwatershed 060101040209.** All HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-116. Illustration of Land Use Distribution in Subwatershed 060101040209.**



**Figure 4-117. Land Use Distribution in Subwatershed 060101040209.** More information is provided in Appendix IV.



**Figure 4-118. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040209.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN112	6.00	C	2.36	5.09	Loam	0.35
TN121	0.00	B	1.30	5.21	Loam	0.33
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN155	0.00	C	1.71	5.31	Loam	0.32

**Table 4-96. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040209.** The definition of "Hydrologic Group" is provided in Appendix IV.

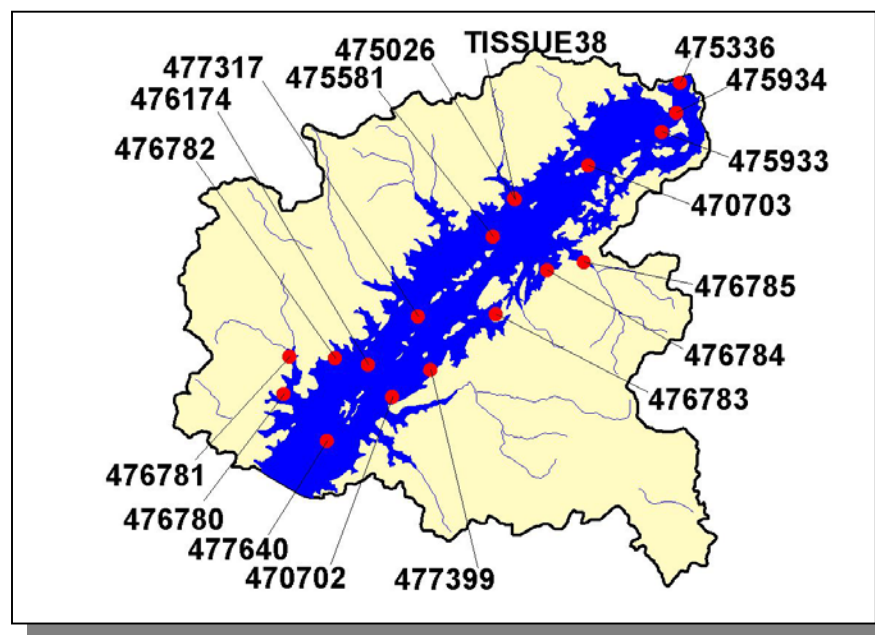
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Grainger	17,095	19,456	20,659	10.68	1,827	2,079	2,207	20.8
Hamblen	50,480	53,699	58,128	19.95	10,069	10,711	11,595	15.2
<b>Total</b>	<b>67,575</b>	<b>73,155</b>	<b>78,787</b>		<b>11,896</b>	<b>12,790</b>	<b>13,802</b>	<b>16.0</b>

*Table 4-97. Population Estimates in Subwatershed 060101040209.*

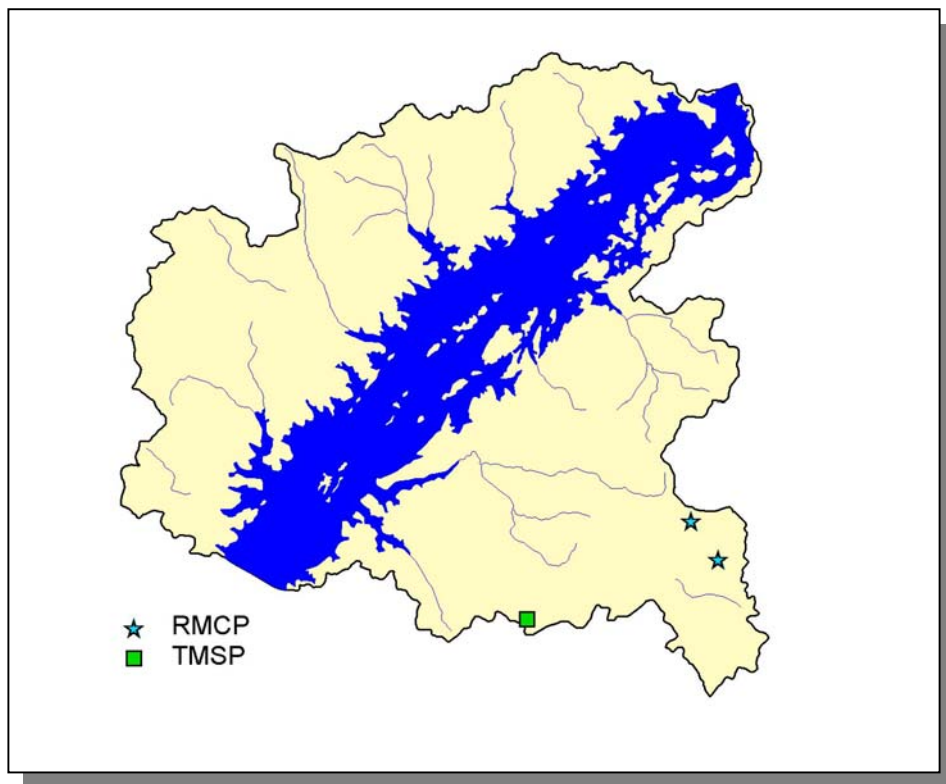
			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Morristown	Hamblen	21,385	9,248	8,768	466	14

*Table 4-98. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040209.*



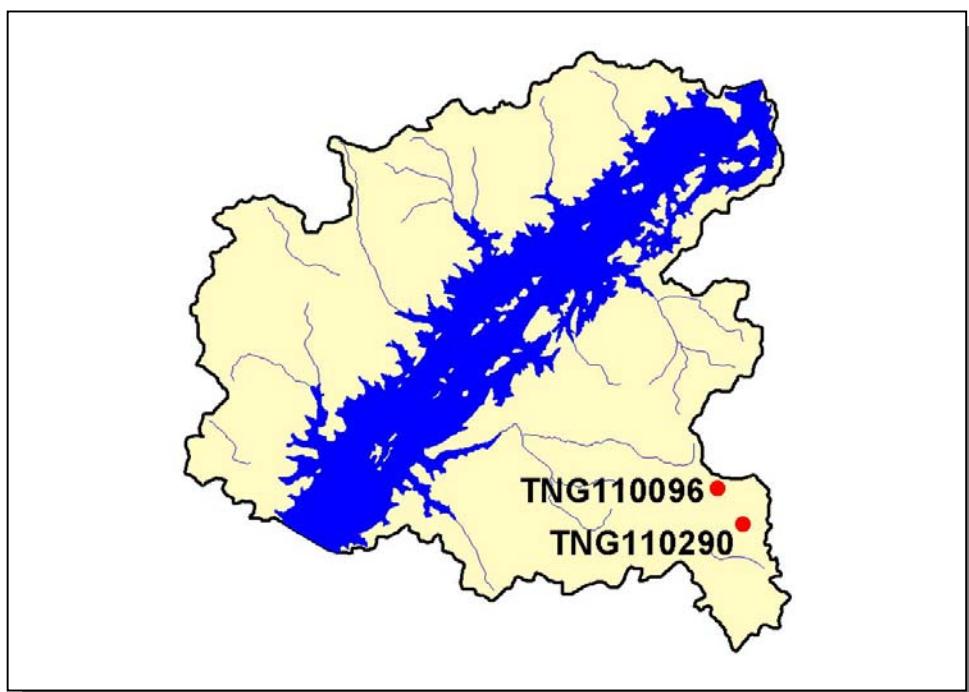
*Figure 4-119. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040209. More information, including site names and locations, is provided in Appendix IV.*

**4.2.B.ix.a. Point Source Contributions.**

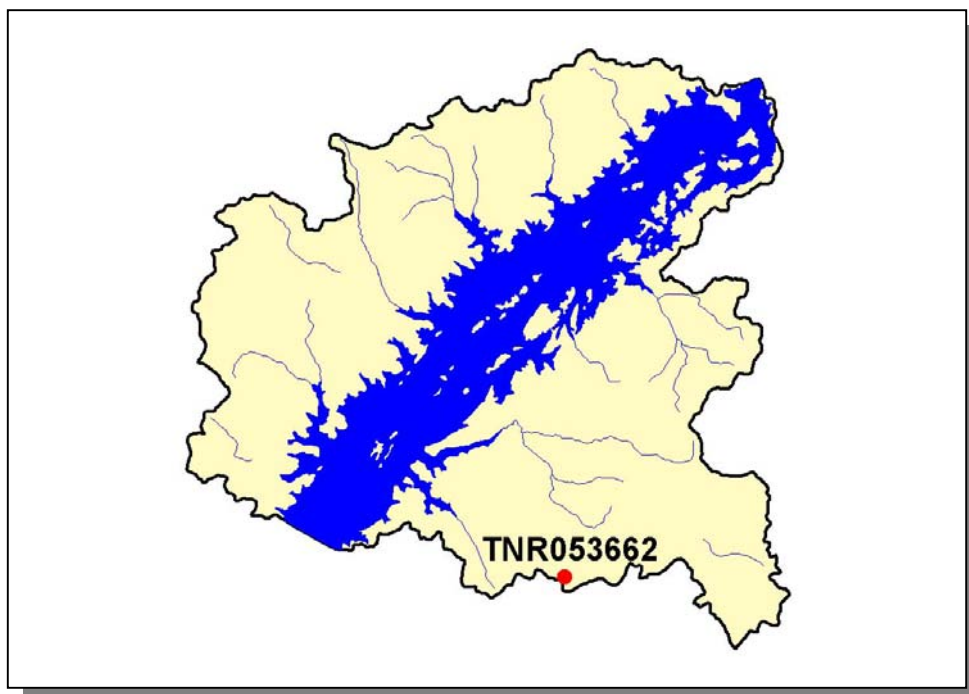


**Figure 4-120. Location of Permits Issued in Subwatershed 060101040209.** More information, including the names of facilities, is provided in Appendix IV.





**Figure 4-121. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 060101040209.** More information is provided in Appendix IV.



**Figure 4-122. Location of TMSP Sites in Subwatershed 060101040209.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.B.ix.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
2,984	5,822	283	7	196,249	218	73

**Table 4-99. Summary of Livestock Count Estimates in Subwatershed 060101040209.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Grainger	12,115	23,927	942	1,184	0	510	195
Hamblen	8,620	16,376	1,129	233	1,776,000	1,195	367

**Table 4-100. Summary of Livestock Count Estimates in Grainger and Hamblen Counties.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

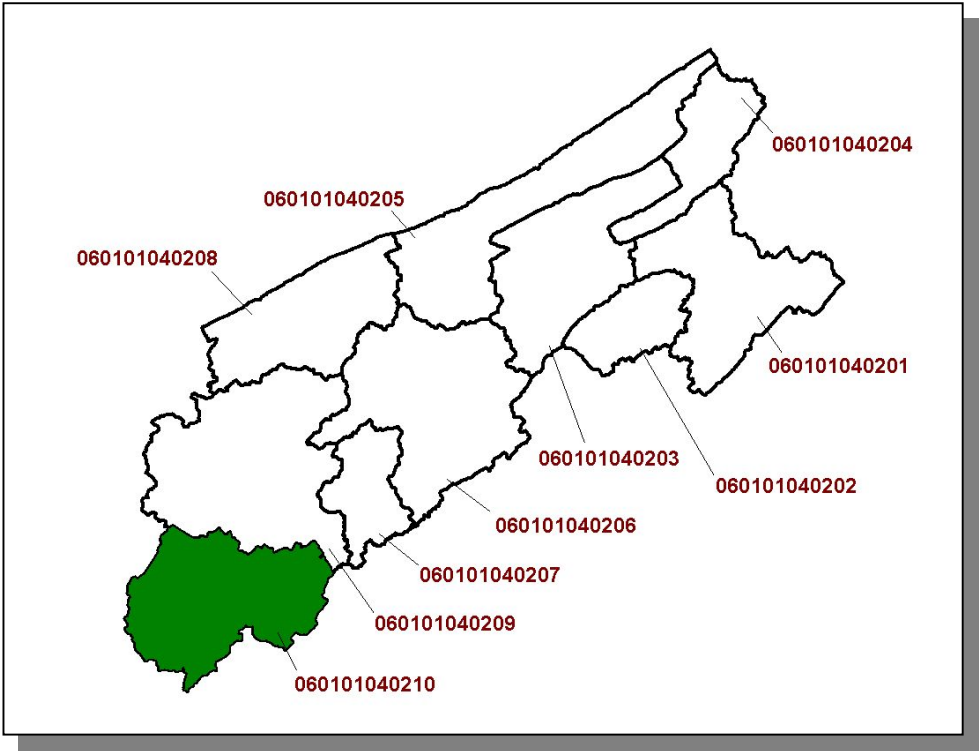
County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grainger	102.6	102.6	0.3	1.8
Hamblen	32.8	32.8	0.0	0.0

**Table 4-101. Forest Acreage and Annual Removal Rates (1987-1994) in Grainger and Hamblen Counties.**

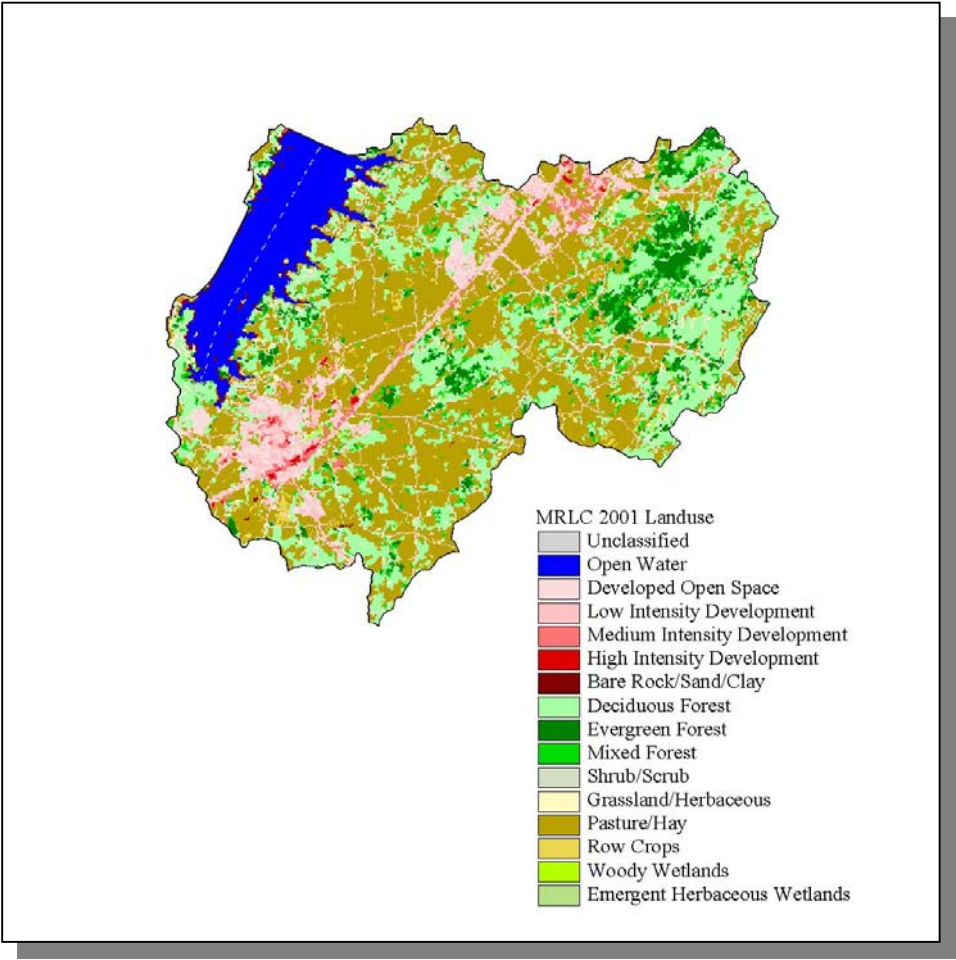
<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Grass (Pastureland)	0.78
Grass (Hayland)	0.34
Legumes, Grass (Hayland)	0.37
Grass, Forbs, Legumes (Mixed Pasture)	0.56
Corn (Row Crops)	10.44
Tobacco (Row Crops)	7.84
Aquaculture in Crop Rotation	0.15
Other Land in Farms	0.21
Farmsteads and Ranch Headquarters	0.32

**Table 4-102. Annual Estimated Total Soil Loss in Subwatershed 060101040209.**

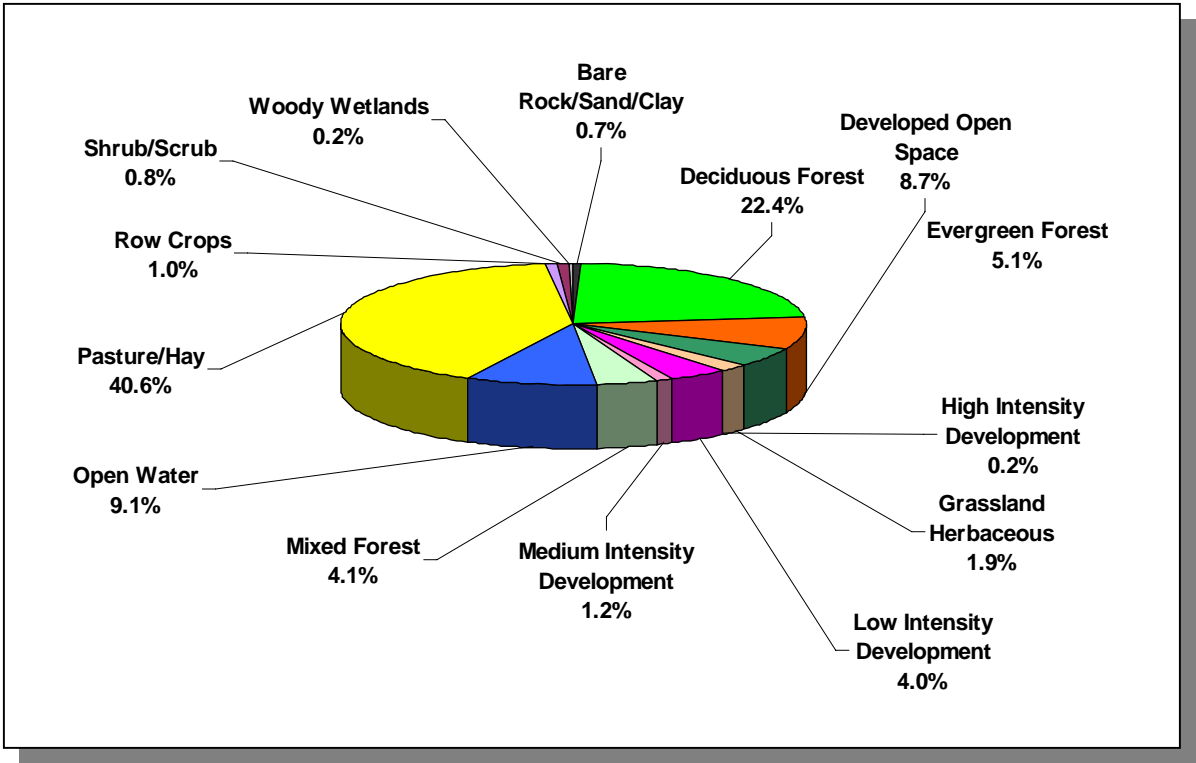
**4.2.B.x.** 060101040210 (Cherokee Lake).



**Figure 4-123. Location of Subwatershed 060101040210.** All HUC-12 subwatershed boundaries are shown for reference.

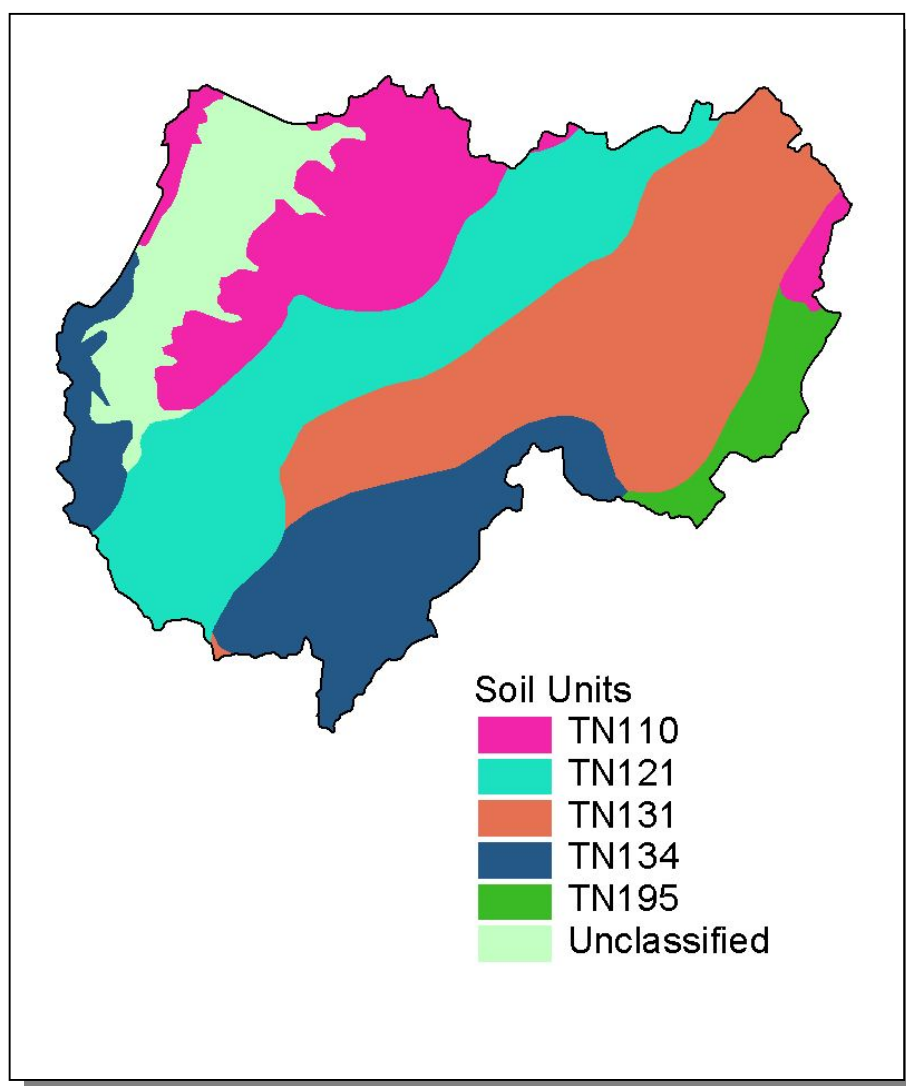


**Figure 4-124. Illustration of Land Use Distribution in Subwatershed 060101040210.**



*Figure 4-125. Land Use Distribution in Subwatershed 060101040210. More information is provided in Appendix IV.*

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**Figure 4-126. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040210.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN121	0.00	B	1.30	5.21	Loam	0.33
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN134	0.00	B	1.38	5.18	Loam	0.31
TN195	0.00	C	1.93	5.19	Silty Loam	0.34

**Table 4-103. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060101040210.** The definition of "Hydrologic Group" is provided in Appendix IV.

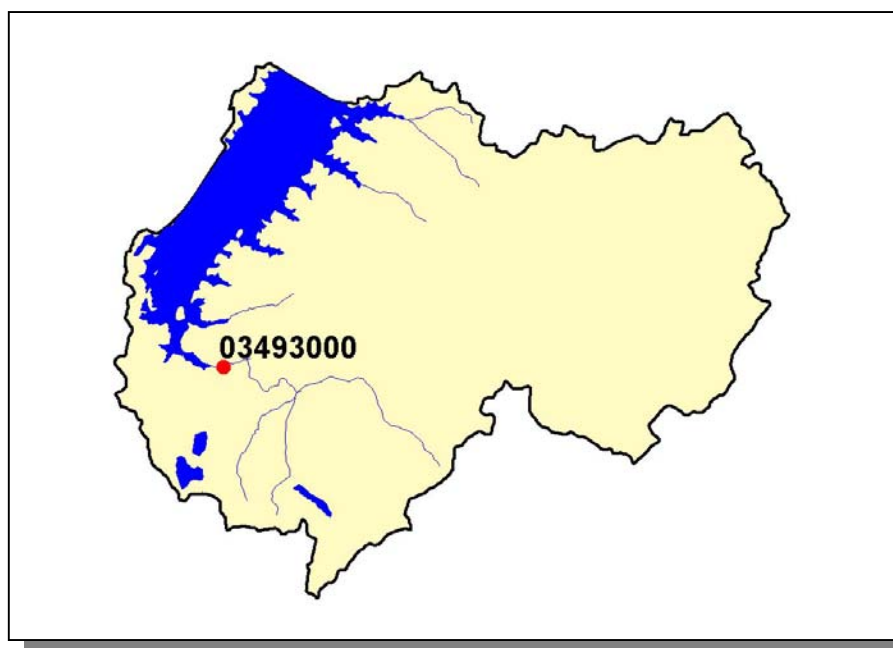
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Grainger	17,095	19,456	20,659	0.83	142	161	171	20.4
Hamblen	50,480	53,699	58,128	5.89	2,976	3,166	3,427	15.2
Jefferson	33,016	42,168	44,294	11.45	3,781	4,829	5,073	34.2
<b>Total</b>	<b>100,591</b>	<b>115,323</b>	<b>123,081</b>		<b>6,899</b>	<b>8,156</b>	<b>8,671</b>	<b>25.7</b>

*Table 4-104. Population Estimates in Subwatershed 060101040210.*

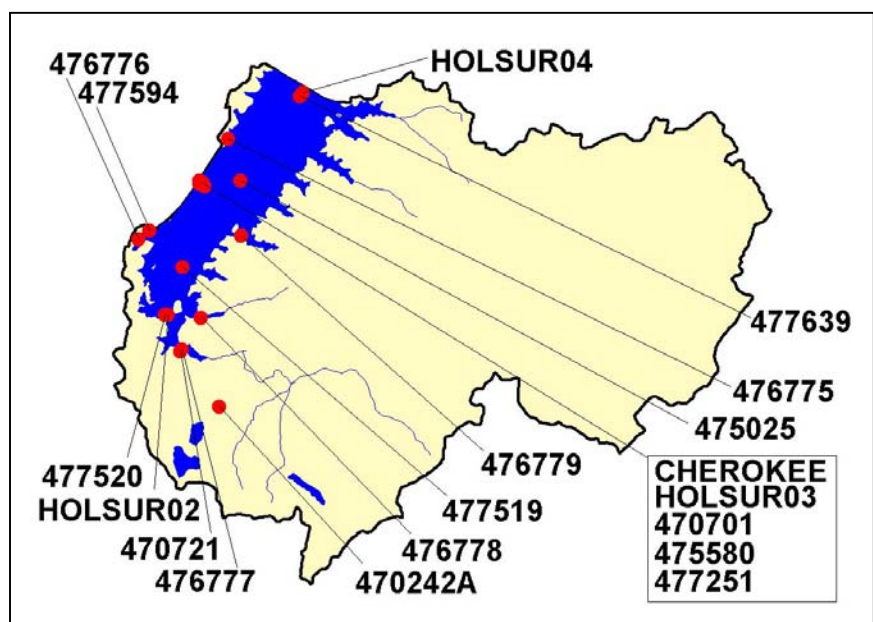
Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Jefferson City	Jefferson	5,494	2,006	1,922	84	0
Morristown	Hamblen	21,385	9,248	8,768	466	14
<b>Total</b>		<b>26,879</b>	<b>11,254</b>	<b>10,690</b>	<b>550</b>	<b>14</b>

*Table 4-105. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 060101040210.*



*Figure 4-127. Location of Historical Streamflow Data Collection Sites in Subwatershed 060101040210. More information is provided in Appendix IV.*

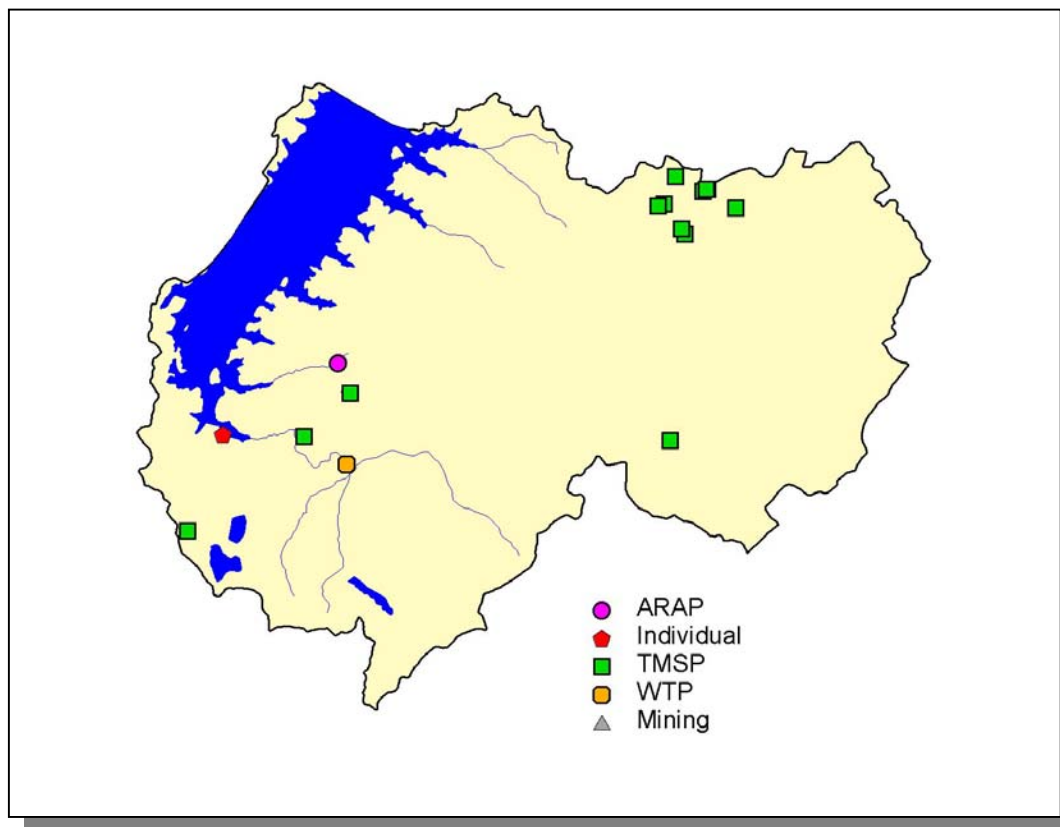
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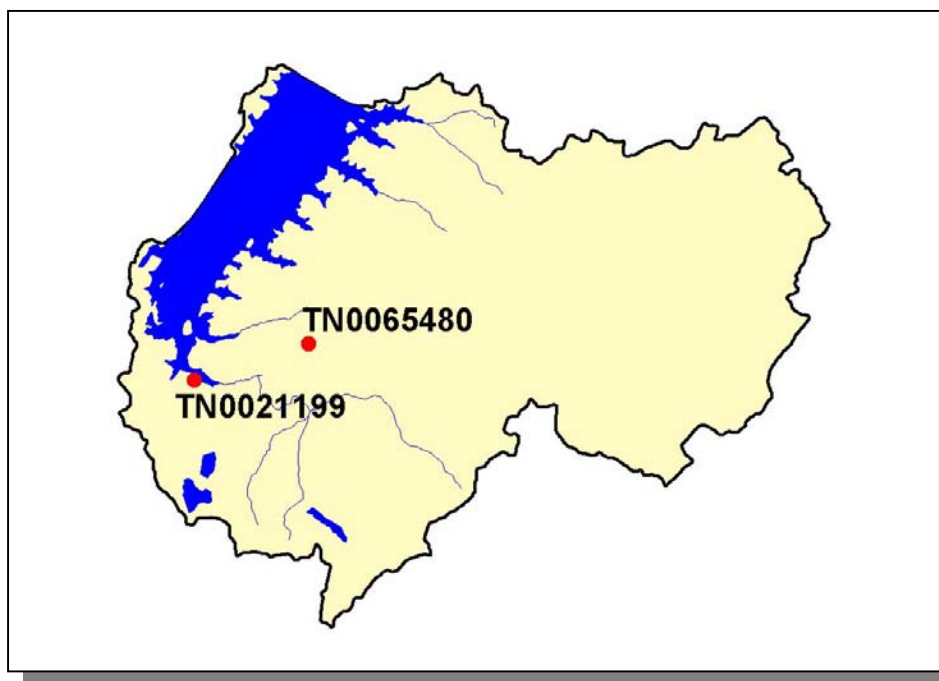
**Figure 4-128. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060101040210.** More information, including site names and locations, is provided in Appendix IV.



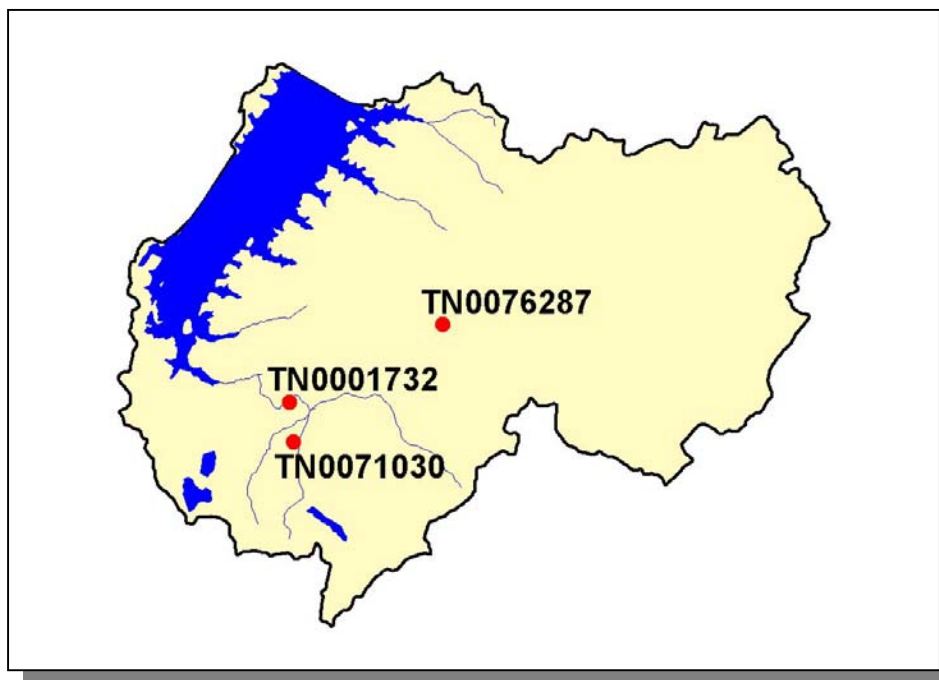
**4.2.B.x.a. Point Source Contributions.**



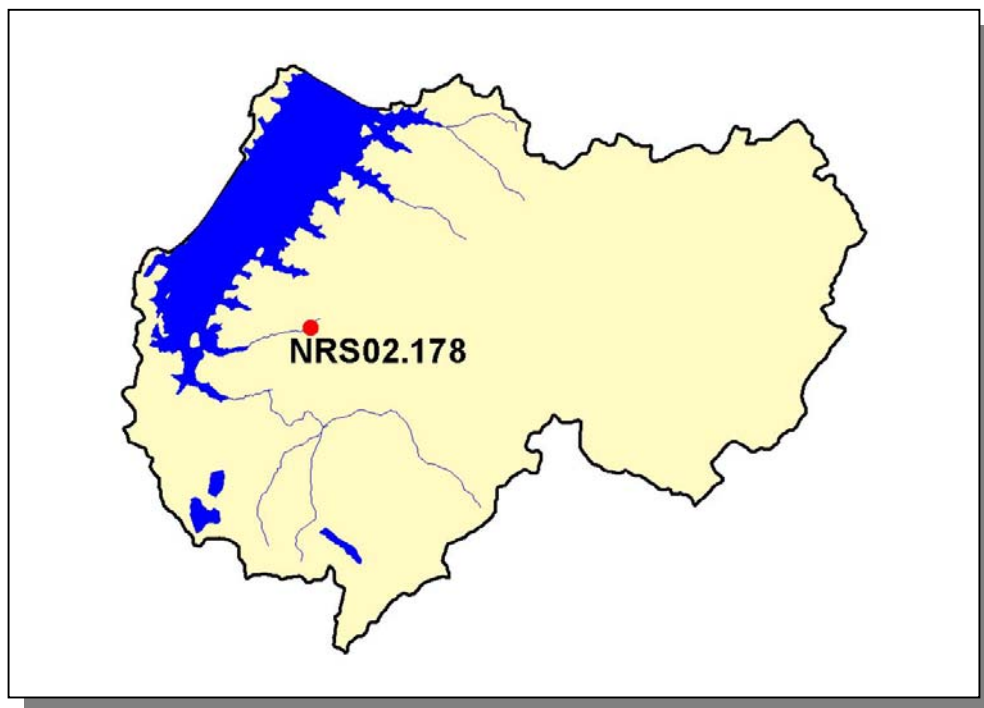
**Figure 4-129. Location of Permits Issued in Subwatershed 060101040210.** More information, including the names of facilities, is provided in Appendix IV.



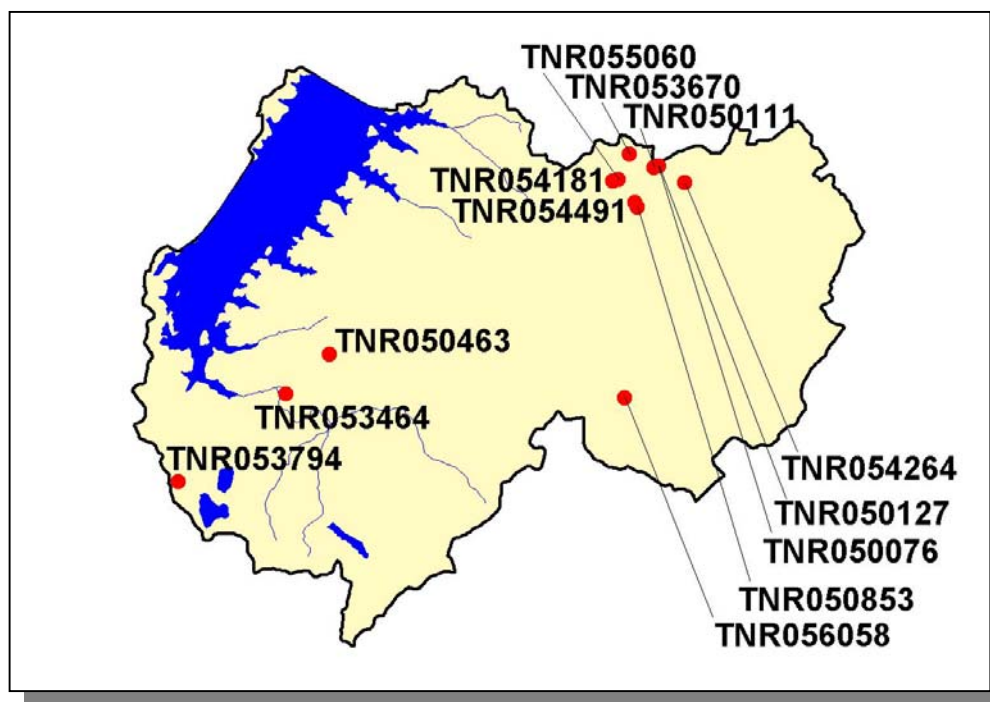
**Figure 4-130. Location of Active NPDES Sites in Subwatershed 060101040210.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-131. Location of Active Mining Sites in Subwatershed 060101040210.** More information, including the names of mining operations, is provided in Appendix IV.



**Figure 4-132. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060101040210.** More information is provided in Appendix IV.



**Figure 4-133. Location of TMSP Sites in Subwatershed 060101040210.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.B.x.b. Nonpoint Source Contributions.**

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
2,636	5,674	314	<5	350,975	95	96

**Table 4-106. Summary of Livestock Count Estimates in Subwatershed 060101040210.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Grainger	12,115	23,927	942	1,184	0	510	195
Hamblen	8,620	16,376	1,129	233	1,776,000	1,195	367
Jefferson	16,126	35,718	1,878	1,633	1,880,000	183	567

**Table 4-107. Summary of Livestock Count Estimates in Grainger, Hamblen, and Jefferson Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grainger	102.6	102.6	0.3	1.8
Hamblen	32.8	32.8	0	0
Jefferson	62.2	62.2	0.6	1.8

**Table 4-108. Forest Acreage and Annual Removal Rates (1987-1994) in Grainger, Hamblen, and Jefferson Counties.**

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.58
Grass (Hayland)	0.27
Legumes, Grass (Hayland)	0.34
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	20.26
Tobacco (Row Crops)	4.35
Oats (Close-Grown Cropland)	13.51
Aquaculture in a Crop Rotation	0.15
Other Land in Farms	0.21
Farmsteads and Ranch Headquarters	0.05

**Table 4-109. Annual Estimated Total Soil Loss in Subwatershed 060101040210.**